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Able Marine Energy Park Environmental Statement

Phase 2 Survey

Supplementary Report EX 11.27

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Just Ecology

ABLE HUMBER PORTS FACILITY, KILLINGHOLME:

Phase 2 survey

Strictly Confidential

Report to Able UK Ltd

by

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JUST ECOLOGY

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Notice to Readers

The advice contained in this report is based on the information available and/or collected during the period of study and within the resources available for the project. We cannot completely eliminate the possibility of important ecological features being found through further investigation and/or by survey at different times of the year or in different years. Reference to sections or particular paragraphs of this document taken out of context may lead to mis-representation. JUST ECOLOGY takes care to ensure that balanced advice is provided, based on the information available at the time.

Contents

1. Executive Summary

1.1 Nineteen areas located within the study area for a proposed ports-related development at Killingholme (Humber Estuary) were subject to appraisal for their vegetation communities. Survey work was undertaken during 7th-11th August 2006.

1.2 A total of 26 National Vegetation Classification (NVC) communities were identified following analysis using the computer package TABLEFIT. Three sites were not classified using the NVC.

1.3 NVC classification has helped identify several potentially sensitive habitats. Site 2A is covered by the pasture and meadows habitat action plan within the Lincolnshire Biodiversity Action Plan. Other, albeit poor, examples of Lincolnshire BAP habitats were identified at Sites1, 2B, 6, 9, 11B, 12A, 17 and 19.

1.4 The implications of the results are identified, highlighting important and protected habitats and their associated wildlife where present.

2. Introduction

2.1 JUST ECOLOGY has been commissioned by Able UK Limited to carry out ecological surveys and assessments that will inform the preparation of an Environmental Statement for a proposed ports facility at Killingholme, Humber Estuary, North Lincolnshire. The application site is shown in Figure 2.1.

2.2 Important ecological receptors have been identified on the basis of desk research and Extended Phase 1 field survey (Kirby *et al.* 2006), including several habitats with potentially important vegetation communities. It was recommended that further investigation was carried out where these habitats existed on site.

2.3 This additional survey will identify, or rule out, the presence of any habitats on site that may be protected by UK law, such as UK BAP (Biodiversity Action Plan) habitats. BAP habitats are given consideration in the planning process under Planning Policy Statement 9 (PPS9). PPS9 also requires developers to enhance biodiversity within a scheme, and this study will aid decision making on how to implement such enhancements. Information collected in this study will also assist with protected species assessments on site.

2.4 Here we present the results of the Phase 2 survey and outline the implications of our findings.

3. Methods

3.1 Targeting & field survey

3.1.1 Nineteen areas were identified for further survey after reviewing results from the 2006 Extended Phase 1 survey (Kirby *et al.* 2006) and a Phase 1 survey carried out over the central part of the site (RPS 2005). These areas included woodlands, grasslands, marsh, reedbeds, salt-marsh, scrub and ditches. These areas were mapped for further appraisal in the field.

3.1.2 Standard NVC (National Vegetation Classification) survey methodology was used in grassland, woodland and scrub. In areas identified for survey for specific groups of species, e.g. aquatic plants, a species list, map of extent, and indication of abundance was recorded. After a preliminary walk-over of a section of land, the boundaries of vegetation NVC community and sub-community stands were be mapped, assisted by paper maps. Mapping covered all areas of each section identified for further Phase 2 survey, such that there is complete and seamless coverage when combined with the existing Phase 1 map. Classification of stand types as a particular NVC (sub) community type was confirmed in the office using bespoke software and keys to analyse the quadrat data and species lists in full.

3.1.3 If the (sub) community was thought to be a new community, a small number of quadrats (2-5) were taken per (sub) community. Additional quadrats were also taken in areas where they were needed to correctly assign an NVC type.

3.1.4 In addition, a brief overall species list, with DAFOR[1] scores, was compiled for each NVC type present on the site. Each NVC polygon added to the habitat map was referenced to a brief description listing key species, and commenting on vegetation structure, under-storey composition and any other appropriate information.

3.1.5 Quadrats sizes of 2m x 2m for open habitats, 4m x 4m for tall-herb communities, and 10m x 10m for scrub (depending on structural scale of vegetation) in size, were used. All vascular plant species within quadrats were recorded using the DOMIN scale of percentage cover. Quadrats were placed within a representative area of each (sub) community. Each quadrat was also coded based upon the site number.

[1] Dominant, Abundant, Frequent, Occasional, Rare

3.1.6 Recording of mosaic communities was avoided where possible. In cases where mosaic communities were recorded, target notes were made detailing the proportions of each component type and a brief description. A minimum mappable area of 10m x 10m was used.

3.1.7 Additional notes were made to record land use factors (*e.g.* grazing, trampling *etc.*), physical factors and any other features (*e.g.* flushes and pools, scattered trees or scrub, or particularly notable species *etc.).* Recording was supplemented by digital photographs.

3.1.8 All vascular plants were recorded to species level. Bryophytes and other lower plants were not identified to species, but were recorded as a group. All species names follow the nomenclature laid out in Stace (1999).

3.1.9 The field survey took place during the period 7th to 11th August 2006.

3.2 Classification

3.2.1 Data were entered into MS Excel. Plant data were then analysed using the phytosociological software package TABLEFIT. This enabled the plant communities to be placed within the NVC, and goodness of fit values and reasons for any poor fit to be examined. The parameters were set to use only vascular plants with DOMIN values for cover in each quadrat.

3.2.2 Identification of communities did not rely solely on these software packages, and where necessary, NVC keys and community descriptions were also used to ensure that the (sub) communities were sensibly classified. Any poorly matched communities were described, and relationships to the NVC discussed and anomalies described.

3.2.3 TABLEFIT is a program designed to identify vegetation types. Given lists of species, together with their abundance values (in this case DOMIN), the program will assign the list to a vegetation type. In the version of TABLEFIT used in this study, the program identifies the vegetation as described in British Plant Communities (Rodwell, 1991a,b, 1992, 1995, 2000).

4. Results

4.1 TABLEFIT classification

4.1.1 Detailed Phase 2 survey was undertaken at the 19 sites (Figure 4.1). Figures 4.2, 4.3, 4.4 and 4.5 illustrate sites where changes in vegetation community required the site to be divided in to sub-sites. Table 4.1 summarises the NVC habitats classified when the quadrat

data collected at the sites was analysed using TABLEFIT. Also included with the table are the quadrat locations where each community was found, and the range of goodness of fit that the quadrat data has with the NVC descriptions following Rodwell (1991a,b, 1992, 1995, and 2000).

Table 4.1: Results of TABLEFIT analysis of quadrat data.

Broad Habitat Type	NVC	Description	Goodness of fit	Goodness of fit rating	Quadrats
Mesotrophic (Neutral) Grassland	MG 1	*Arrhenatherum elatius* grassland	100	Very good	7/8B-Q3
	MG 1a	*Arrhenatherum elatius* grassland- *Festuca rubra* sub-community	79-100	Good-very good	7/8B-Q1, 7/8B-Q2
	MG 6c	*Lolium perenne-Cynosurus cristatus* grassland- *Trisetum flavescens* sub-community	75-88	Good-very good	14A-Q1, 14A-Q2, 14B-Q1, 14B-Q2, 14C-Q1, 14C-Q2, 18-Q1, 18-Q3
	MG 7c	*Lolium perenne- Alopecurus pratensis-Festuca pratensis* grassland	40	Very poor	12B-Q2
	MG 7d	*Lolium perenne- Alopecurus pratensis* hay-meadow	46-91	Very poor-Very good	12A-Q1, 12B-Q1, 13A-Q1, 13A-Q2
	MG 9	*Holcus lanatus-Deschampsia cespitosa* grassland	95	Very good	17-Q3
	MG10a	*Holcus lanatus-Juncus effusus* rush-pasture- Typical sub-community	34-62	Very poor-fair	11B-Q1, 11B-Q2, 11B-Q3, 1-Q3, 2B-Q1, 2B-Q2
Other Vegetation	OV 1	*Viola arvensis-Aphanes microcarpa* community	29	Very poor	5-Q2
	OV 8	*Veronica persica-Alopecurus myosuroides* community	25	Very poor	5-Q1
	OV24	*Urtica dioica-Galium aparine* community	89	Very good	12C-Q1
	OV25	*Urtica dioica-Cirsium arvense* community	61-64	Fair	1-Q1, 1-Q2
	OV26a	*Epilobium hirsutum* community-*Juncus effusus-Ranunculus repens* sub-community	52	Poor	5-Q3
	OV27d	*Epilobium angustifolium* community-*Acer pseudoplatanus-Sambucus nigra* sub-community	22	Very poor	11A-Q1
Swamps and tall-herb fens	S21	*Scirpus maritimus* swamp	68	Fair	10B-Q1
	S25a	*Phragmites australis-Eupatorium cannabinum* tall-herb fen- *Phragmites australis* sub-community	81-95	Very good	7/8A-Q1, 7/8A-Q3
	S26b	*Phragmites australis-Urtica dioica* tall-herb fen- *Arrhenatherum elatius* sub-community	76	Good	7/8A-Q2
Salt-marsh	SM 8	Annual *Salicornia* salt-marsh community	14	Very poor	10E-Q1
	SM16d	*Juncus gerardii* salt-marsh community- tall *Festuca rubra* sub-community	71	Good	10C-Q1
	SM24	*Elymus pycnanthus* salt-marsh community	76-97	Good-very	10A-Q1, 10A-Q2, 10D-Q1

				good	
	SM28	*Elymus repens* salt-marsh community	65	Fair	17-Q1
Upland Communities	U 1f	*Festuca ovina-Agrostis capillaris-Rumex acetosella* grassland- *Hypochaeris radicata* sub-community	67-75	Fair-good	2A-Q1, 2A-Q2, 2A-Q3
	U 4b	*Festuca ovina-Agrostis capillaris-Galium saxatile* grassland- *Holcus lanatus-Trifolium repens* sub-community	57-67	Poor-fair	17-Q2, 18-Q2
Woodland and Scrub	W 8e	*Fraxinus excelsior-Acer campestre-Mercurialis perennis* woodland- *Geranium robertianum* sub-community	28-72	Very poor-good	12D-Q1, 19-Q1, 4-Q1, 4-Q2
	W21	*Crataegus monogyna-Hedera helix* scrub	81	Very good	15/16-Q2, 15/16-Q3
	W21a	*Crataegus monogyna-Hedera helix* scrub- *Hedera helix-Urtica dioica* sub-community	86	Very good	15/16-Q1
	W24a	*Rubus fruticosus-Holcus lanatus* underscrub- *Cirsium arvense-Cirsium vulgare* sub-community	32	Very poor	12B-Q3

4.2 Distribution of NVC communities within the site.

4.2.1 **Mesotrophic (Neutral) Grassland-** The goodness of fit between these quadrats and the NVC is rated as ranging from very poor to very good. MG1 grasslands within this broad habitat type are species poor and dominated by coarse-leaved tussock forming grasses such as false oat-grass *Arrhenatherum elatius*. A number of MG6 grassland quadrats were recorded at Sites 14 and 18 towards the north of the application site. These are typical of improved grazing pasture. Ridge and furrow was present in these fields which can be an indication of old unimproved pasture. In this instance, the communities found were generally species-poor although the sub-community MG6c has some affinity to the base-rich soils that produced species-rich grasslands (Rodwell, 1992). Other grasslands identified by the analysis as MG7 including short-term re-seeded leys are associated with even more intensive management than MG6 grassland. One of the sites within this study (12B-Q2) is classified as MG7c water meadow and although a very poor goodness of fit was recorded, this association illustrates the influence of a high water table on the grassland communities and the wildlife they support. Present in both the north and south of the application area were stands of vegetation where drainage was impeded even further and MG10 *Holcus lanatus-Juncus effusus* rush pasture was found.

4.2.2 **Other Vegetation-** The goodness of fit between these quadrats and the NVC is rated as very poor-very good. These communities were located within the southern half of the site and were found where agricultural production has ceased. These sites include fields that were managed arable crops and now lacking any management allowing ruderal plants to establish from wind blown seed.

4.2.3 **Swamps and tall-herb fens-** The goodness of fit between these quadrats and the NVC is rated as fair-very good. All these quadrats are located along the very eastern boundary of the application site. The quadrats recorded at the bottom of the sea defence wall at site 7/8A are dominated by common reed and may have formed where field drains have become choked with vegetation. The only other swamp community was associated with the shoreline at Site 10. The goodness of fit of these sites tends to have a fair or better rating as they are characterised by the predominance of one or two species.

4.2.4 **Salt-marsh-** The goodness of fit between these quadrats and the NVC is rated as very poor-very-good. Other than one potentially misclassified site (17-Q1) all these communities were identified on Site 10 which falls within the Humber Estuary SSSI.

4.2.5 **Upland Communities-** The goodness of fit between these quadrats and the NVC is rated as fair-good. The U1f sub-community recorded at Site 2A may be misclassified as two of the constant species for this NVC class, sheep's fescue *Festuca ovina* and sheep's sorrel *Rumex acetosella*, were not recorded. The quadrats did however have a fair-good fit with the community, and the NVC description of the community (Rodwell, 1992) fits well with observations in the field. Site 2A included some of the most diverse grassland found within the survey area. Further north, Sites 17 and 18 included communities with poor-fair affinity with U4b, a habitat of more agriculturally improved grassland often in association with improved MG6 grassland as described elsewhere within these sites.

4.2.6 **Woodland and Scrub-** The goodness of fit between these quadrats and the NVC is rated as very poor-very good. Only Site 19-Q1 had a very good fit with the W8e NVC community and all the required constant species were present within the quadrat. All three W8e woodlands surveyed are plantation of varying maturity and are located in both the north and south of the study area. Other than Site 19-Q1, these woodlands contained a high percentage cover of non-native trees such as sycamore *Acer pseudoplatanus* which may account for the lower goodness of fit from the TABLEFIT analysis. Three other scrub communities were found on site including dense stands of Hawthorn *Crataegus monogyna* scrub (W21, W21a) and bramble *Rubus fruticosus* underscrub (W24a). These communities were present at two sites in the east of the study area. Botanical interest within these scrub communities was low.

4.3 Non NVC sites

4.3.1 **Site 3**-This site includes a small area of mosaic between open scrub with abundant ruderal species and a taller, more shaded stand of Wych Elm. The open scrub includes frequent bramble, occasional Common Hawthorn and rare Elder and Apple. The understorey was dominated by common ruderal plants including abundant nettle, frequent Cleavers and occasional Hedge Woundwort, moss and Hemlock. There were rare occurrences of Stinking Iris and Common Reed.

4.3.2 **Site 6**- This site includes a ditch with encroaching common reed. The ditch has a trapezoidal profile with steep banks that have been resectioned to improve drainage. The cover of the in-channel vegetation would suggest a maintenance regime is in place to stop the ditch becoming choked. The water was 40cm deep at the western end deepening to 50cm at the eastern end and the water clarity was very

clear along the entire length. The vegetation can be classified in the mid-successional phase and was not shaded at any point along its length. The western third of the ditch was characterised by frequent and locally abundant water-starwort *Callitriche* sp.. An attempt was made to identify the species but after a thorough search no fruits could be found which are essential for identification of water-starworts. Common Reed was also frequent and locally abundant at both the western and eastern ends of the ditch but, was absent from the middle section where Common Duckweed *Lemna minor* was locally dominant. At the eastern end of the ditch there was frequent and locally abundant Small Pondweed *Potamogeton berchtoldii* with occasional Sea Club-rush *Bolboschoenus maritima*. Yellow Iris *Iris pseudocorus* and algae were occasional throughout the ditch. Casual recording of ditch fauna were made including stickleback, water-boatman, a whorl snail, a ramshorn snail, a leech and a backswimmer.

4.3.3 **Site 9-** This site included two features of ecological interest within the groundflora and verge of the hedgerows present. East Field Road running north-south through the site included a diverse flora including Common Spotted-orchid *Dactylorhiza fuchsii*, Agrimony *Agrimonia eupatoria*, Black Knapweed *Centaurea nigra*, Meadow Vetchling *Lathyrus pratensis*, False-brome *Brachypodium sylvaticum*, False Fox-sedge *Carex otrubae* and Lady's Bedstraw *Galium verum*. A total of 36 orchids was recorded along this section of verge. The road leading west in to North Killingholme from this point is lined with a hedge on either side. Within the ground-flora was frequent Spurge-laurel *Daphne laureola* along most of the length of the hedge. Spurge-laurel is an indicator of Ancient Woodlands, in this case its presence may indicate that the hedgerow has been present for a long time, or that the area was once covered by native woodland.

5. Implications

5.1 The Extended Phase 1 field survey of the study area (Kirby *et al.* 2006) mapped habitat types. This survey has, where possible, classified habitats within the NVC.

5.2 Some of the agriculturally improved grassland communities identified in the NVC analysis are associated with imperfect drainage and seasonal inundation, namely, MG7, MG9 and MG10 along with their sub-communities. Examples of these grasslands on site are floristically poor, but may be rich in invertebrates. The sites with this group that exhibit the wettest conditions (1, 2B, 11B, 12A, 17) could be considered as poor quality grazing marshes. Grazing marshes have a habitat action plan in the Lincolnshire Biodiversity Action Plan (BAP) and are particularly important for the number of breeding waders they support, including species such as snipe *Gallinago gallinago*, lapwing *Vanellus vanellus* and curlew *Numenius arquata* (www.ukbap.org.uk).

5.3 One pasture within the development area (Site 2A) was floristically diverse and was uniformly classed as U1f grassland. Although the species are not individually rare, this pasture provides abundant nectaring and food plants for many invertebrates. These invertebrates in turn may attract a variety of fauna to feed at the site including bats, birds and amphibians. Species rich grasslands such as Site 2A are covered by the pasture and meadows habitat action plan within the Lincolnshire BAP. A similar habitat was found at Site 9 where an abundance of common spotted orchids and an ancient woodland indicator were found.

5.4 Other grasslands identified were improved pasture with little or no floristic interest in terms of community. Such habitats do support other wildlife; in particular dung from cattle can support a range of insects that provide valuable winter feeding resources for bats and birds.

5.5 During the time of the Extended Phase 1 Survey (Kirby *et al.* 2006), Site 5 supported a number of breeding birds. This field contains a ruderal stand of vegetation which often develops on set-aside fields or arable margins. The OV26a community again highlights the influence of a high water table on the vegetation composition. This community is not a protected habitat and does not feature in the UKBAP although long-term set-aside land can recover from the intensive arable cropping regime to support an abundance of wildlife.

5.6 The Site 10 saltmarsh is outside of the application area and working practice on site should avoid contaminating this area. The site is within the Humber Estuary SSSI and hence is protected by law.

5.7 Of the woodlands and scrub analysed, only Site 19 has any semi-natural character. The W8e NVC community should be considered as poor example of the upland mixed ashwood UK BAP habitat. Other woodlands in the south of the site are immature and management has resulted in open plantation woodland with little or no understorey and groundflora.

5.8 The scrub community described at Site 3 does not represent a rare or protected assemblage of species and the individual species recorded were all common and are widespread with the UK. Such habitat does not have a habitat action plan in the Lincolnshire BAP or the UK BAP. The site does have the potential to support protected species including birds and provide a limited feeding resource for bats.

5.9 Ditches surveyed were both maintained with flowing water, and choked with vegetation due to a lack of management. The ditch at Site 6

included a number of typical freshwater flora including a water-starwort which was not identified to species due to the lateness of the season in which the survey took place. This habitat is represented in the coastal and floodplain grazing marsh habitat action plan within the Lincolnshire BAP. A number of casual observations were made of invertebrates in the ditch and aquatic invertebrate survey is recommended at an optimal time of year, i.e. March-April.

5.10 The other reedbeds encountered at Site 7/8a were classified as S26 common reed tall-herb fen. These are stands dominated by common reed and provide valuable habitat for nesting birds.

6. References

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7. Figures

Figure 2.1: Site location (courtesy of Able UK)

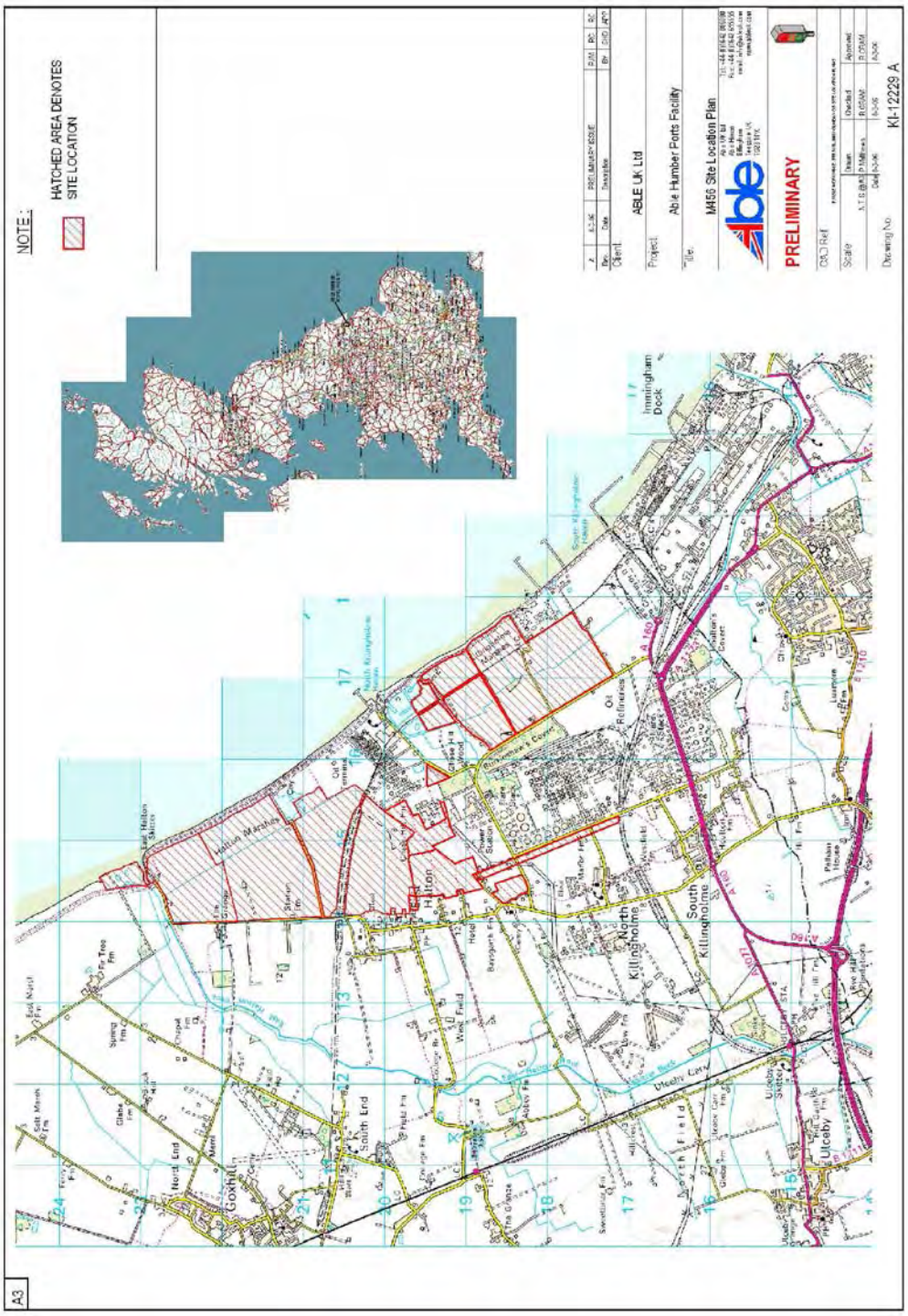


Figure 4.1: Location of sites surveyed

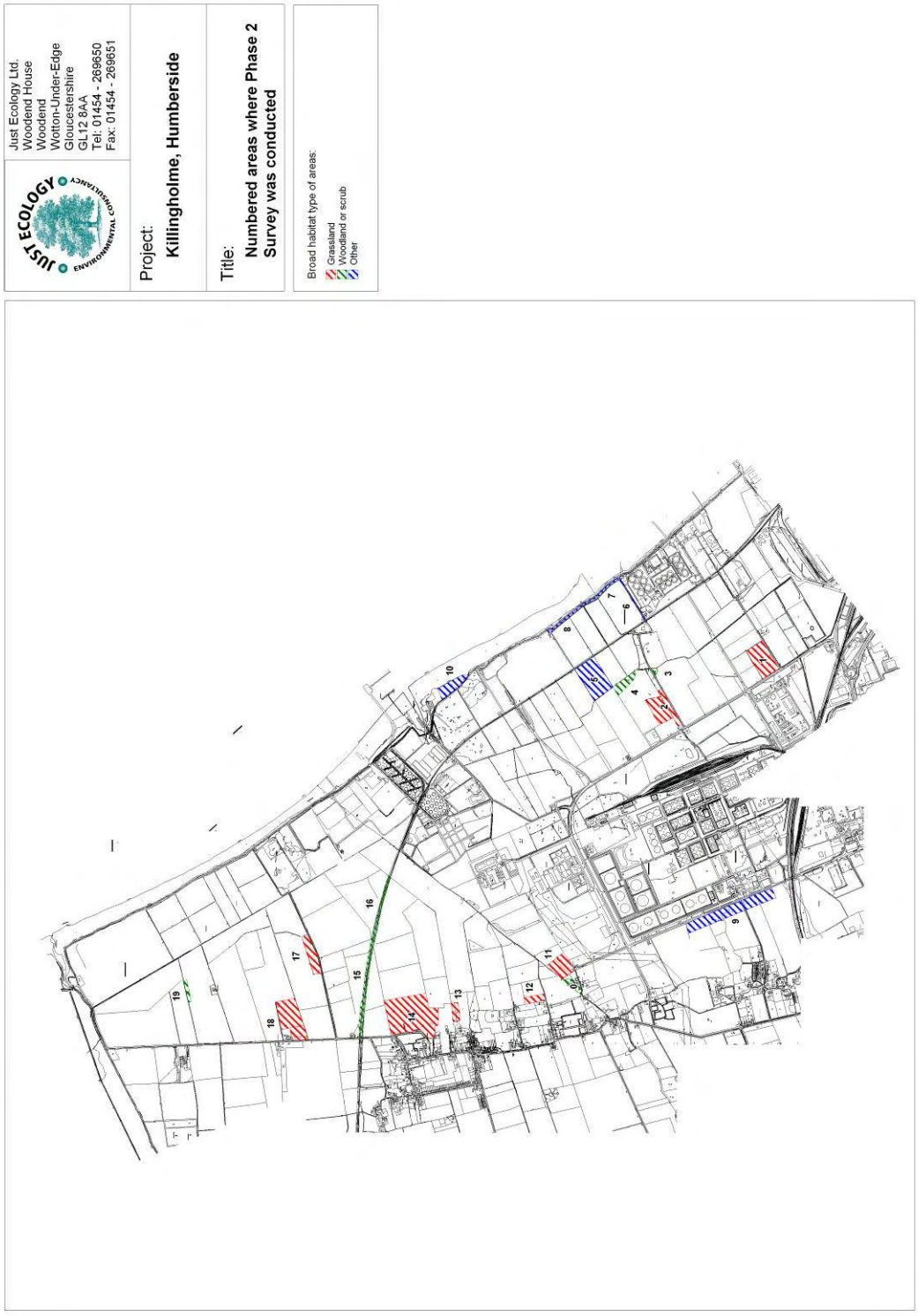


Figure 4.2: Sub-sites located within sites 11 & 12

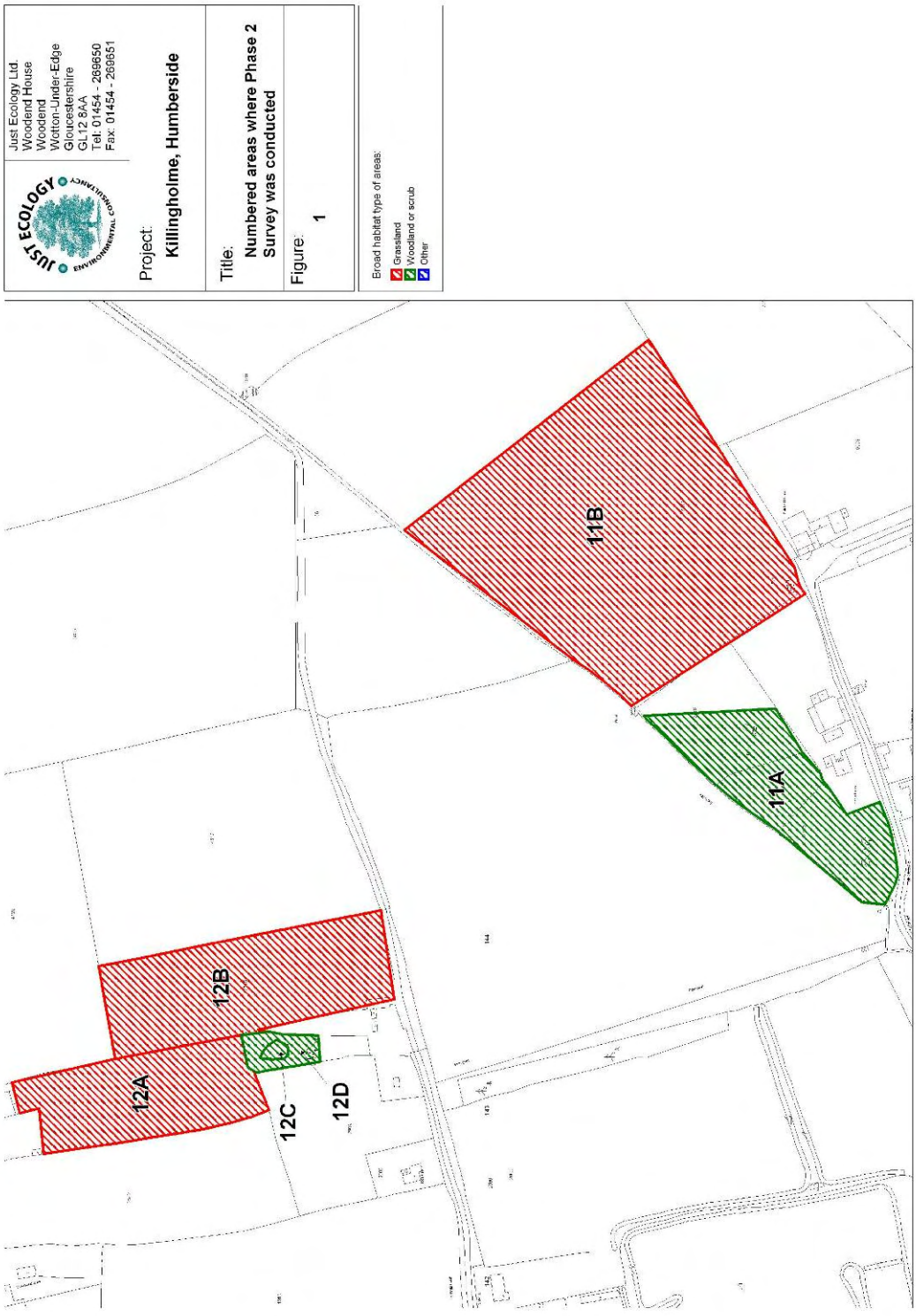


Figure 4.3: Sub-sites located within sites 13 & 14

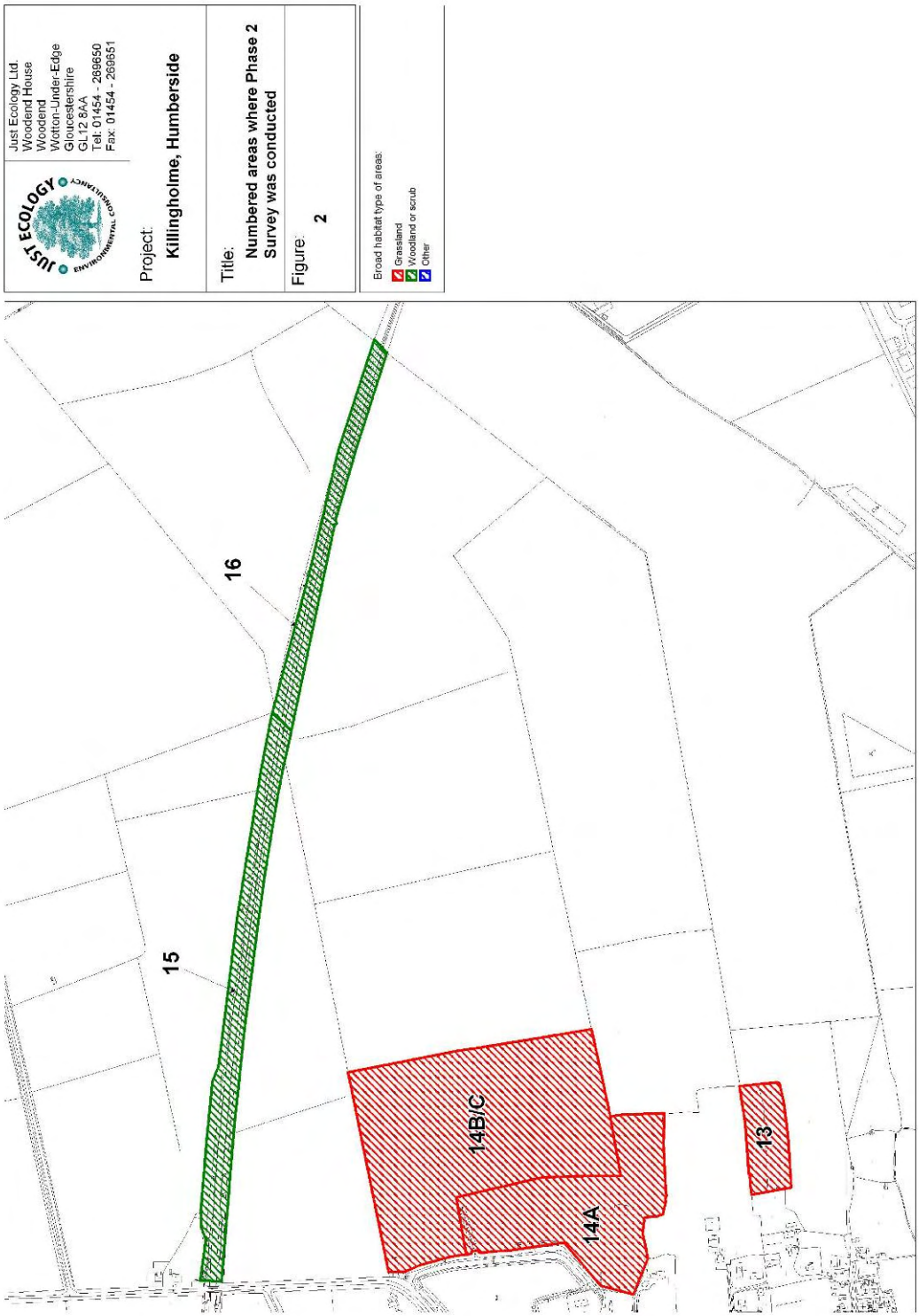


Figure 4.4: Sub-sites located within sites 2 & 7

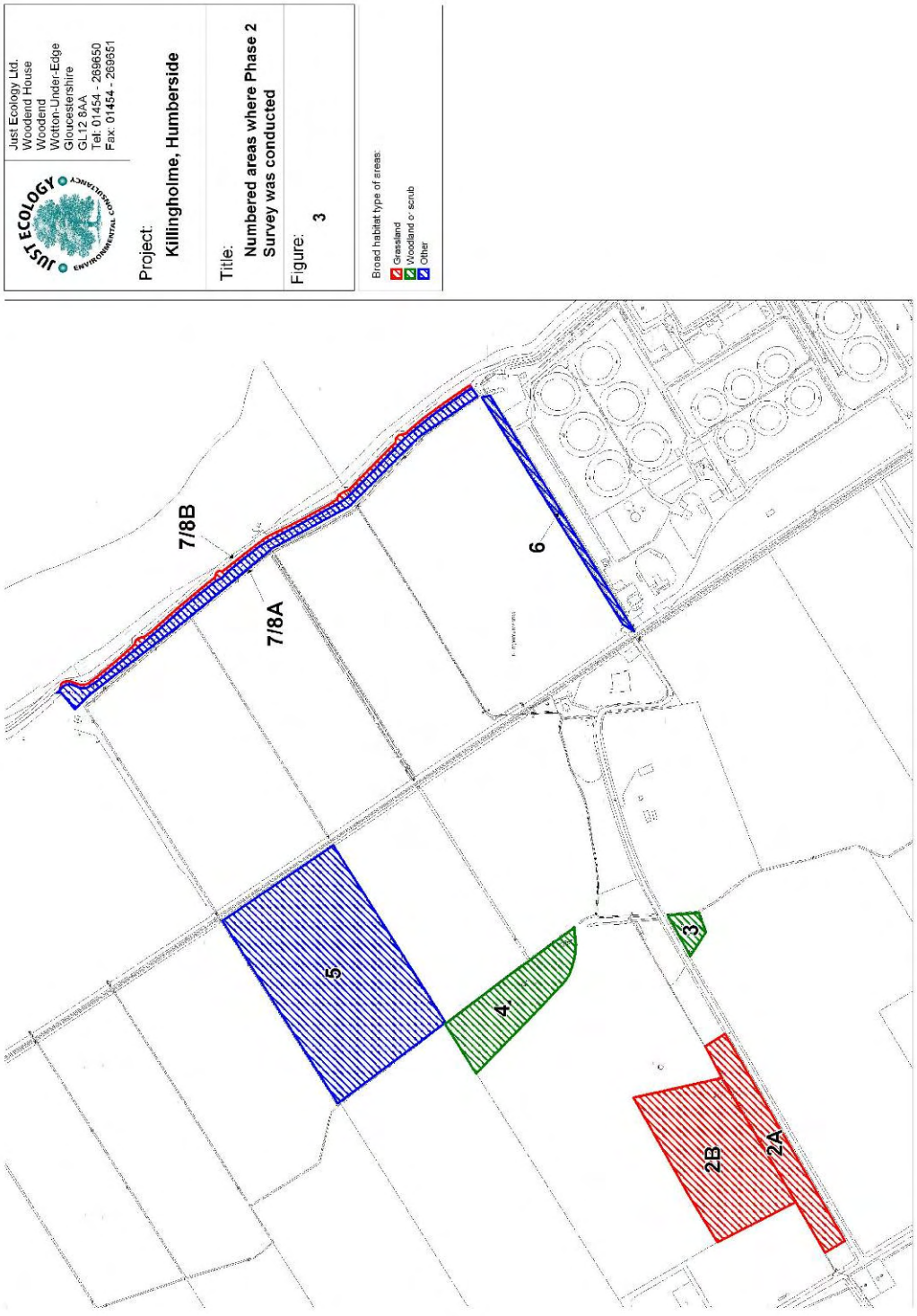
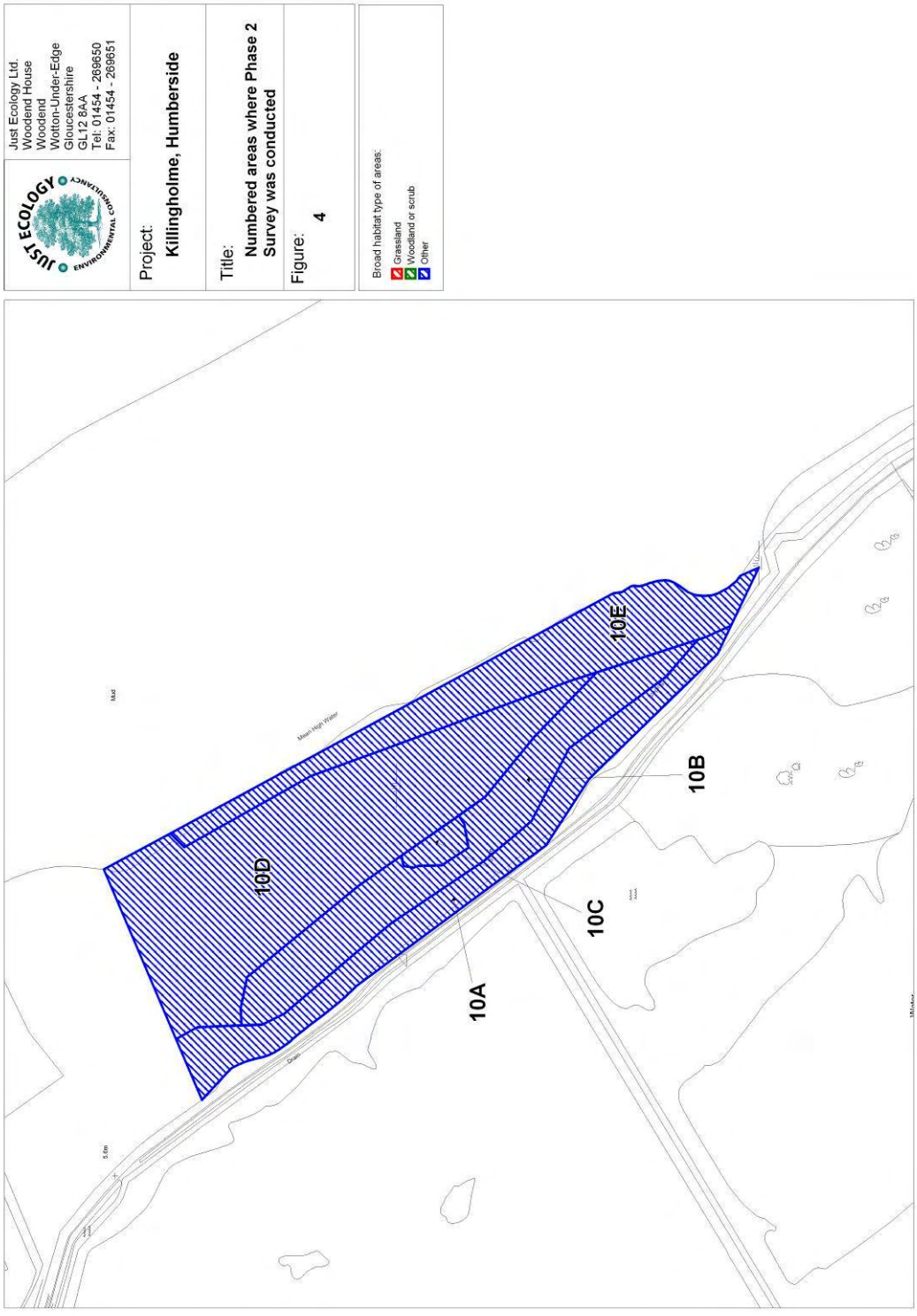


Figure 4.5: Sub-sites located within site 10



8 Appendix

8.1 TABLEFIT output for all sites.

Site 1-Q1		Parameters =	Nobryo Domin Cov on
C87.2 OV25	**64**	**0 46 67 81|**	**Urtic-Cir arv tall herb**
C87.2 OV25b	64	0 41 64 95|	Urtic-Cir arv tall herb Ely rep-Art vul
C15.35 SM28	56	0 36 57 91|	Elym repens salt-marsh
C85.3 OV13d	54	0 30 56 82|	Stel med-Caps burs weed Urt dio-Gal apa
C87.2 OV19e	40	0 30 41 83|	Poa ann-Tripl inod weed Elytrig repens

Site 1-Q2		Parameters =	Nobryo Domin Cov on
C87.2 OV25	**61**	**0 51 69 66|**	**Urtic-Cir arv tall herb**
C87.2 OV25b	59	0 34 64 74|	Urtic-Cir arv tall herb Ely rep-Art vul
C15.35 SM28	52	0 24 57 70|	Elym repens salt-marsh
C85.3 OV13d	48	0 20 56 63|	Stel med-Caps burs weed Urt dio-Gal apa
C87.2 OV19e	36	0 20 41 64|	Poa ann-Tripl inod weed Elytrig repens

Site 1-Q3		Parameters =	Nobryo Domin Cov on
C37.241 MG10a	**62**	**0 47 64 83|**	**Holc lana-Junc effusus Typical**
C87.2 OV19d	60	0 49 64 76|	Poa ann-Tripl inod weed Mat dis-Pla maj
C82.1 OV15c	50	0 39 65 52|	Anag arv-Vero pers weed Agr sto-Ran rep
C37.241 MG10b	48	0 57 50 79|	Holc lana-Junc effusus Junc inflexus
C31.811 W24a	47	0 58 51 74|	Rub fr-Hol la underscb Cir arv-Cir vul

Site 2A-Q1		Parameters =	Nobryo Domin Cov on
C35.22 U 1f	**75**	**0 31 99 64|**	**Fes ovi-Agr cap-Rum acl Hypoch radicata**
C35.12 U 4b	73	0 58 75 84|	Fes ovi-Agr cap-Gal sax Hol lan-Tri rep
C18.2 MC 9e	54	0 50 56 83|	Fest rubra-Holcu lanat Anthox odorat
C38.112 MG 5c	49	0 76 49 94|	Cynos cris-Centaur nigr Danth decumbens
C34.321 CG10c	49	0 36 55 66|	Fest ovi-Agro cap-Thym Sax aiz-Dit fle

Site 2A-Q2		Parameters =	Nobryo Domin Cov on
C35.22 U 1f	**67**	**0 38 99 55|**	**Fes ovi-Agr cap-Rum acl Hypoch radicata**
C35.12 U 4b	63	0 58 71 67|	Fes ovi-Agr cap-Gal sax Hol lan-Tri rep
C38.111 MG 6c	57	0 56 63 69|	Lolium per-Cynos cris Triset flavesc
C38.112 MG 5c	56	0 85 57 86|	Cynos cris-Centaur nigr Danth decumbens
C38.111 MG 6b	52	0 67 55 76|	Lolium per-Cynos cris Anthox odorat

Site 2A-Q3		Parameters =	Nobryo Domin Cov on
C35.22 U 1f	**74**	**0 36 99 63|**	**Fes ovi-Agr cap-Rum acl Hypoch radicata**
C35.12 U 4b	68	0 54 71 80|	Fes ovi-Agr cap-Gal sax Hol lan-Tri rep
C38.112 MG 5c	45	0 69 47 84|	Cynos cris-Centaur nigr Danth decumbens
C18.2 MC 9e	45	0 40 47 78|	Fest rubra-Holcu lanat Anthox odorat
C38.23 MG 3b	44	0 62 45 86|	Anthox odo-Geran sylv Briza media

Site 2B-Q1		Parameters =	Nobryo Domin Cov on
C37.241 MG10a	**42**	**0 51 42 100|**	**Holc lana-Junc effusus Typical**
C18.2 MC 9	40	0 54 40 100|	Fest rubra-Holcu lanat
C18.2 MC 9b	35	0 41 35 96|	Fest rubra-Holcu lanat Dactyl glomer
C31.811 W24	30	0 56 30 100|	Rub fr-Hol la underscb
C31.811 W24a	29	0 58 29 100|	Rub fr-Hol la underscb Cir arv-Cir vul

Site 2B-Q2		Parameters =	Nobryo Domin Cov on
C37.241 MG10a	**42**	**0 25 42 99|**	**Holc lana-Junc effusus Typical**
C18.2 MC 9	40	0 27 40 100|	Fest rubra-Holcu lanat
C18.2 MC 9b	35	0 20 35 88|	Fest rubra-Holcu lanat Dactyl glomer
C31.811 W24	30	0 28 30 99|	Rub fr-Hol la underscb
C31.811 W24a	29	0 38 29 97|	Rub fr-Hol la underscb Cir arv-Cir vul

Site 2B-Q3		Parameters =	Nobryo Domin Cov on
C37.241 MG10a	**40**	**0 38 42 77|**	**Holc lana-Junc effusus Typical**
C18.2 MC 9	38	0 40 40 78|	Fest rubra-Holcu lanat
C18.2 MC 9b	32	0 31 35 68|	Fest rubra-Holcu lanat Dactyl glomer
C31.811 W24	29	0 42 30 76|	Rub fr-Hol la underscb
C16.26 SD16b	28	0 43 28 83|	Salix repe-Holc lanatus Rubus caesius

Site 4-Q1		Parameters =	Nobryo Domin Cov on
C41.41 W 8e	**55**	**0 100 55 100|**	**Fra exc-Ace cam-Mer per Geranium robert**
C31.812 W21	44	0 65 54 57|	Crat mono-Hedera scrub
C31.812 W21c	43	0 53 61 46|	Crat mono-Hedera scrub Brach sylvatic
C31.812 W21b	43	0 78 49 63|	Crat mono-Hedera scrub Mercur perennis
C41.31 W 9a	40	0 85 43 77|	Fra exc-Sor auc-Mer per Typical

Site 4-Q2		Parameters =	Nobryo Domin Cov on
C41.41 W 8e	**33**	**0 100 33 97|**	**Fra exc-Ace cam-Mer per Geranium robert**
C41.31 W 9a	27	0 92 29 74|	Fra exc-Sor auc-Mer per Typical
C31.812 W21b	21	0 66 31 43|	Crat mono-Hedera scrub Mercur perennis
C41.32 W 8b	20	0 94 24 62|	Fra exc-Ace cam-Mer per Anemone nemoros
C31.87 OV27d	20	0 65 30 43|	Epil/Cham ang tall herb Ace pse-Sam nig

Site 5-Q1		Parameters =	Nobryo Domin Cov on
C82.1 OV 8	**25**	**0 59 32 53|**	**Vero pers-Alop myo weed**
C37.7 OV26e	23	0 15 43 32|	Epil hirsut tall herb Urt dio-Cir arv
C87.2 OV25a	23	0 27 70 20|	Urtic-Cir arv tall herb Hol lan-Poa ann
C37.7 OV26d	22	0 19 37 36|	Epil hirsut tall herb Arr ela-Her sph
C37.7 OV26	22	0 15 41 31|	Epil hirsut tall herb

Site 5-Q2		Parameters =	Nobryo Domin Cov on
C82.3 OV 1	**29**	**0 20 79 25|**	**Viol arv-Aph micr weed**
C87.2 OV20a	27	0 20 78 22|	Poa ann-Sagin proc weed Typical
C87.2 OV20	27	0 13 72 23|	Poa ann-Sagin proc weed
C87.2 OV21a	26	0 17 58 26|	Poa ann-Plant maj weed Typical
C87.2 OV22b	25	0 14 66 23|	Poa ann-Tarax offi weed Cir vul-Cir arv

Site 5-Q3		Parameters =	Nobryo Domin Cov on
C37.7 OV26a	**52**	**0 19 78 47|**	**Epil hirsut tall herb Epil hirsutum**
C37.7 OV26	51	0 22 67 52|	Epil hirsut tall herb
C37.7 OV26e	48	0 21 69 46|	Epil hirsut tall herb Urt dio-Cir arv
C37.7 OV26b	48	0 17 61 53|	Epil hirsut tall herb Phr aus-Eup can
C37.7 OV26d	46	0 32 59 52|	Epil hirsut tall herb Arr ela-Her sph

Site 7/8A-Q1		Parameters =	Nobryo Domin Cov on
C54.2I S25a	**81**	**0 19 95 74|**	**Phragmit-Eupatorium fen Phragmites aus**
C53.112 S26b	79	0 35 81 83|	Phragmites-Urtica fen Arrhen elatius
C53.11 S 4b	79	0 14 99 68|	Phragmites reed-bed Galium palustr
C54.2I S25	78	0 15 94 71|	Phragmit-Eupatorium fen
C53.11 S 4c	78	0 14 100 67|	Phragmites reed-bed Menyanth trifol

Site 7/8A-Q2		Parameters =	Nobryo	Domin	Cov on	
C53.112 S26b	**76**	**0 35 89 70|**	**Phragmites-Urtica fen**		**Arrhen elatius**	
C54.2I S25a	71	0 19 95 61|	Phragmit-Eupatorium fen		Phragmites aus	
C53.11 S 4b	68	0 14 99 56|	Phragmites reed-bed		Galium palustr	
C54.2I S25	68	0 15 94 58|	Phragmit-Eupatorium fen			
C53.11 S 4c	68	0 14 100 55|	Phragmites reed-bed		Menyanth trifol	

Site 7/8A-Q3		Parameters =	Nobryo	Domin	Cov on	
C54.2I S25a	**95**	**0 24 95 95|**	**Phragmit-Eupatorium fen**		**Phragmites aus**	
C53.11 S 4b	92	0 18 99 88|	Phragmites reed-bed		Galium palustr	
C53.11 S 4c	92	0 17 100 86|	Phragmites reed-bed		Menyanth trifol	
C54.2I S25	92	0 19 94 91|	Phragmit-Eupatorium fen			
C53.11 S 4a	89	0 12 100 82|	Phragmites reed-bed		Phragmit austr	

Site 7/8B-Q1		Parameters =	Nobryo	Domin	Cov on	
C38.22 MG 1a	**79**	**0 100 79 100|**	**Arrhenatherum elatius**		**Festuca rubra**	
C38.22 MG 1	72	0 99 72 100|	Arrhenatherum elatius			
C38.22 MG 1d	55	0 69 56 87|	Arrhenatherum elatius		Pastin sativa	
C38.22 MG 1b	55	0 62 55 96|	Arrhenatherum elatius		Urtica dioica	
C38.22 MG 1c	52	0 68 52 97|	Arrhenatherum elatius		Filip ulmaria	

Site 7/8B-Q2		Parameters =	Nobryo	Domin	Cov on	
C38.22 MG 1a	**97**	**0 84 97 100|**	**Arrhenatherum elatius**		**Festuca rubra**	
C38.22 MG 1	95	0 100 95 100|	Arrhenatherum elatius			
C38.22 MG 1c	80	0 75 80 100|	Arrhenatherum elatius		Filip ulmaria	
C38.22 MG 1d	79	0 94 79 94|	Arrhenatherum elatius		Pastin sativa	
C38.22 MG 1b	67	0 64 67 90|	Arrhenatherum elatius		Urtica dioica	

Site 7/8B-Q3		Parameters =	Nobryo	Domin	Cov on	
C38.22 MG 1	**100**	**0 89 100 100|**	**Arrhenatherum elatius**			
C38.22 MG 1a	98	0 73 99 97|	Arrhenatherum elatius		Festuca rubra	
C38.22 MG 1c	80	0 69 81 87|	Arrhenatherum elatius		Filip ulmaria	
C38.22 MG 1d	76	0 66 79 80|	Arrhenatherum elatius		Pastin sativa	
C38.22 MG 1e	69	0 76 69 91|	Arrhenatherum elatius		Centaurea nigra	

Site 10A-Q1		Parameters =	Nobryo	Domin	Cov on	
C15.35 SM24	**76**	**0 38 98 65|**	**Elymus pycnanthus**			
C15.623 SM25a	52	0 34 64 57|	Suaeda vera drift-line		Elymus pycnanth	
C15.35 SM26b	39	0 16 48 55|	Inula crithmoides		Elymus pycnanth	
C16.2121SD 7e	35	0 45 41 62|	Ammoph aren-Fest rubra		Elym pycnanthus	
C15.623 SM25	17	0 23 24 48|	Suaeda vera drift-line			

Site 10A-Q2		Parameters =	Nobryo	Domin	Cov on	
C15.35 SM24	**95**	**0 50 97 93|**	**Elymus pycnanthus**			
C15.623 SM25a	61	0 44 63 81|	Suaeda vera drift-line		Elymus pycnanth	
C15.35 SM26b	46	0 33 48 80|	Inula crithmoides		Elymus pycnanth	
C16.2121SD 7e	39	0 45 39 86|	Ammoph aren-Fest rubra		Elym pycnanthus	
C15.623 SM25	21	0 34 24 69|	Suaeda vera drift-line			

Site 10B-Q1		Parameters =	Nobryo	Domin	Cov on	
C53.17 S21	**68**	**0 72 81 65|**	**Scirpus maritimus swamp**			
C53.17 S21a	64	0 50 83 59|	Scirpus maritimus swamp		Scirpus maritim	

C53.17 S21b	61	0 79 66 73|	Scirpus maritimus swamp Atrip hastata
C53.17 S21c	48	0 66 55 63|	Scirpus maritimus swamp Agros stolonif
C53.17 S21d	42	0 70 49 61|	Scirpus maritimus swamp Poten anserina

Site 10C-Q1		Parameters =	Nobryo Domin Cov on
C15.331 SM16d	**71**	**0 73 82 68|**	**Juncus gerardii Festuca rubra**
C54.12 M37	49	0 26 87 41|	Craton comm-Fest rubr
C15.31 SM13c	48	0 68 51 76|	Puccinellia salt-marsh Lim vul-Arm mar
C15.331 SM16a	48	0 78 48 95|	Juncus gerardii Puccin maritim
C15.331 SM16c	48	0 53 50 79|	Juncus gerardii Fes rub-Gla mar

Site 10D-Q1		Parameters =	Nobryo Domin Cov on
C15.35 SM24	**97**	**0 100 97 100|**	**Elymus pycnanthus**
C15.623 SM25a	63	0 100 63 100|	Suaeda vera drift-line Elymus pycnanth
C15.35 SM26b	48	0 100 48 100|	Inula crithmoides Elymus pycnanth
C16.2121SD 7e	39	0 100 39 100|	Ammoph aren-Fest rubra Elym pycnanthus
C15.623 SM25	23	0 100 24 86|	Suaeda vera drift-line

Site 10E-Q1		Parameters =	Nobryo Domin Cov on
C15.111 SM 8	**14**	**0 48 16 62|**	**Annual Salicornia**
C15.321 SM26a	6	0 39 8 60|	Inula crithmoides Puccin maritim
C15.323 SM10	6	0 58 6 70|	Transitional low marsh
C15.111 SM 9	5	0 39 7 48|	Suaeda maritima
C15.322 SM11	4	0 39 5 61|	Aster trip discoideum

Site 11A-Q1		Parameters =	Nobryo Domin Cov on
C31.87 OV27d	**22**	**0 42 28 56|**	**Epil/Cham ang tall herb Ace pse-Sam nig**
C41.32 W 8	10	0 73 13 57|	Fra exc-Ace cam-Mer per (subcomms a-d)
C41.41 W 8e	10	0 91 10 92|	Fra exc-Ace cam-Mer per Geranium robert
C41.41 W 8g	8	0 82 9 64|	Fra exc-Ace cam-Mer per Teucrium scorod
C41.233 W 8f	8	0 61 10 48|	Fra exc-Ace cam-Mer per Allium ursinum

Site 11B-Q1		Parameters =	Nobryo Domin Cov on
C18.2 MC 9	35	0 32 41 62|	Fest rubra-Holcu lanat
C37.241 MG10a	**34**	**0 27 42 55|**	**Holc lana-Junc effusus Typical**
C18.2 MC 9b	31	0 31 40 54|	Fest rubra-Holcu lanat Dactyl glomer
C18.2 MC 9e	27	0 51 30 64|	Fest rubra-Holcu lanat Anthox odorat
C35.12 U 4b	25	0 69 28 71|	Fes ovi-Agr cap-Gal sax Hol lan-Tri rep

Site 11B-Q2		Parameters =	Nobryo Domin Cov on
C37.241 MG10a	**38**	**0 32 44 62|**	**Holc lana-Junc effusus Typical**
C18.2 MC 9	35	0 30 41 63|	Fest rubra-Holcu lanat
C18.2 MC 9b	32	0 25 40 56|	Fest rubra-Holcu lanat Dactyl glomer
C37.213 MG 9	26	0 74 28 73|	Holc lana-Desch cespit
C37.213 MG 9a	26	0 74 28 71|	Holc lana-Desch cespit Poa trivialis

Site 11B-Q3		Parameters =	Nobryo Domin Cov on
C37.241 MG10a	**37**	**0 35 42 65|**	**Holc lana-Junc effusus Typical**
C18.2 MC 9	35	0 32 40 63|	Fest rubra-Holcu lanat
C18.2 MC 9b	31	0 41 37 59|	Fest rubra-Holcu lanat Dactyl glomer
C31.811 W24	27	0 37 32 63|	Rub fr-Hol la underscb
C31.811 W24a	26	0 38 31 61|	Rub fr-Hol la underscb Cir arv-Cir vul

Site 12A-Q1		Parameters =	Nobryo	Domin	Cov on	
C38.111 MG 7d	**46**	**0**	**75**	**51**	**68|**	**Lol pere hay-meadow Lol per-Alo pra**
C38.111 MG 7c	31	0	75	34	71|	Lol pere flood-pasture Lol-Alop-Fes pr
C82.1 OV10d	30	0	41	52	35|	Poa ann-Senec vulg weed Dac glo-Agr cap
C37.241 MG10a	30	0	30	42	45|	Holc lana-Junc effusus Typical
C38.111 MG 6c	30	0	57	35	61|	Lolium per-Cynos cris Triset flavesc

Site 12A-Q2		Parameters =	Nobryo	Domin	Cov on	
C87.2 OV25a	**54**	**0**	**48**	**82**	**48|**	**Urtic-Cir arv tall herb Hol lan-Poa ann**
C38.111 MG 7d	51	0	76	55	75|	Lol pere hay-meadow Lol per-Alo pra
C38.111 MG 7c	47	0	82	49	80|	Lol pere flood-pasture Lol-Alop-Fes pr
C87.2 OV25	28	0	46	38	49|	Urtic-Cir arv tall herb
C31.811 W24a	28	0	58	37	51|	Rub fr-Hol la underscb Cir arv-Cir vul

Site 12B-Q1		Parameters =	Nobryo	Domin	Cov on	
C38.111 MG 7d	**49**	**0**	**62**	**51**	**81|**	**Lol pere hay-meadow Lol per-Alo pra**
C38.111 MG 7c	48	0	68	49	87|	Lol pere flood-pasture Lol-Alop-Fes pr
C35.12 U 4b	19	0	70	29	43|	Fes ovi-Agr cap-Gal sax Hol lan-Tri rep
C37.213 MG 9	19	0	70	23	58|	Holc lana-Desch cespit
C31.811 W24	17	0	36	31	33|	Rub fr-Hol la underscb

Site 12B-Q2		Parameters =	Nobryo	Domin	Cov on	
C38.111 MG 7c	**40**	**0**	**68**	**43**	**72|**	**Lol pere flood-pasture Lol-Alop-Fes pr**
C37.241 MG10c	35	0	69	43	58|	Holc lana-Junc effusus Iris pseudacor
C38.111 MG 7d	34	0	59	40	62|	Lol pere hay-meadow Lol per-Alo pra
C37.241 MG10b	34	0	68	45	50|	Holc lana-Junc effusus Junc inflexus
C37.241 MG10a	33	0	53	42	52|	Holc lana-Junc effusus Typical

Site 12B-Q3		Parameters =	Nobryo	Domin	Cov on	
C31.811 W24a	**32**	**0**	**31**	**51**	**39|**	**Rub fr-Hol la underscb Cir arv-Cir vul**
C37.218 M22b	26	0	64	32	56|	Junc subnod-Cirsi palu Briza-Trifolium
C37.241 MG10c	24	0	34	38	39|	Holc lana-Junc effusus Iris pseudacor
C37.213 MG 9	23	0	67	29	53|	Holc lana-Desch cespit
C37.241 MG10a	21	0	33	33	39|	Holc lana-Junc effusus Typical

Site 12C-Q1		Parameters =	Nobryo	Domin	Cov on	
C87.2 OV24	**89**	**0**	**76**	**90**	**91|**	**Urtica-Gal ap tall herb**
C87.2 OV24a	86	0	52	100	77|	Urtica-Gal ap tall herb Typical
C87.2 OV24b	64	0	85	65	91|	Urtica-Gal ap tall herb Arr ela-Rub fru
C31.812 W21b	51	0	63	52	96|	Crat mono-Hedera scrub Mercur perennis
C44.911 W 6a	47	0	58	49	81|	Aln glut-Urtic dio wood Typical

Site 12D-Q1		Parameters =	Nobryo	Domin	Cov on	
C41.41 W 8e	**28**	**0**	**79**	**28**	**100|**	**Fra exc-Ace cam-Mer per Geranium robert**
C41.41 W 8g	26	0	60	26	86|	Fra exc-Ace cam-Mer per Teucrium scorod
C31.812 W21c	24	0	57	33	47|	Crat mono-Hedera scrub Brach sylvatic
C31.812 W21	20	0	82	21	74|	Crat mono-Hedera scrub
C41.32 W 8a	19	0	48	19	81|	Fra exc-Ace cam-Mer per Pri vul-Gle hed

Site 13A-Q1		Parameters =	Nobryo	Domin	Cov on	
C38.111 MG 7d	**67**	**0**	**95**	**69**	**83|**	**Lol pere hay-meadow Lol per-Alo pra**
C82.1 OV10d	65	0	54	84	60|	Poa ann-Senec vulg weed Dac glo-Agr cap
C81 MG 7a	63	0	33	100	51|	Lolium perenne ley Lol per-Tri rep
C38.111 MG 6c	58	0	77	58	88|	Lolium per-Cynos cris Triset flavesc
C37.242 MG11a	57	0	67	61	74|	Fes rub-Agr sto-Pot ans Lolium perenne

Site 13A-Q2		Parameters =	Nobryo	Domin	Cov on	
C38.111 MG 7d	**91**	**0**	**97**	**94**	**89|**	**Lol pere hay-meadow Lol per-Alo pra**
C37.242 MG11a	55	0	70	62	66|	Fes rub-Agr sto-Pot ans Lolium perenne
C81 MG 7a	53	0	38	99	41|	Lolium perenne ley Lol per-Tri rep
C38.111 MG 7c	53	0	94	54	90|	Lol pere flood-pasture Lol-Alop-Fes pr
C82.1 OV10d	51	0	62	79	46|	Poa ann-Senec vulg weed Dac glo-Agr cap

Site 14A-Q1		Parameters =	Nobryo	Domin	Cov on	
C38.111 MG 6c	**81**	**0**	**100**	**81**	**96|**	**Lolium per-Cynos cris Triset flavesc**
C81 MG 7e	60	0	81	68	67|	Lol pere verges & lawns Lol per-Pla lan
C87.2 OV23	60	0	54	78	56|	Loli-Dactyl weedy grass
C81 MG 7a	59	0	45	100	47|	Lolium perenne ley Lol per-Tri rep
C38.111 MG 7d	59	0	75	70	61|	Lol pere hay-meadow Lol per-Alo pra

Site 14A-Q2		Parameters =	Nobryo	Domin	Cov on	
C38.111 MG 6c	**75**	**0**	**100**	**75**	**100|**	**Lolium per-Cynos cris Triset flavesc**
C81 MG 7a	66	0	44	98	54|	Lolium perenne ley Lol per-Tri rep
C37.242 MG11a	53	0	62	60	65|	Fes rub-Agr sto-Pot ans Lolium perenne
C38.111 MG 6a	50	0	100	51	86|	Lolium per-Cynos cris Typical
C82.1 OV10d	48	0	48	77	44|	Poa ann-Senec vulg weed Dac glo-Agr cap

Site 14B-Q1		Parameters =	Nobryo	Domin	Cov on	
C38.111 MG 6c	**77**	**0**	**98**	**78**	**92|**	**Lolium per-Cynos cris Triset flavesc**
C38.111 MG 6a	63	0	95	64	91|	Lolium per-Cynos cris Typical
C38.111 MG 6	57	0	93	57	91|	Lolium per-Cynos cris
C38.111 MG 7d	54	0	70	66	58|	Lol pere hay-meadow Lol per-Alo pra
C81 MG 7a	52	0	39	100	40|	Lolium perenne ley Lol per-Tri rep

Site 14B-Q2		Parameters =	Nobryo	Domin	Cov on	
C38.111 MG 6c	**88**	**0**	**80**	**88**	**94|**	**Lolium per-Cynos cris Triset flavesc**
C38.111 MG 6a	63	0	96	65	82|	Lolium per-Cynos cris Typical
C38.111 MG 6	57	0	85	58	82|	Lolium per-Cynos cris
C38.111 MG 6b	47	0	85	48	80|	Lolium per-Cynos cris Anthox odorat
C38.111 MG 7d	40	0	73	59	43|	Lol pere hay-meadow Lol per-Alo pra

Site 14C-Q1		Parameters =	Nobryo	Domin	Cov on	
C38.111 MG 6c	**76**	**0**	**92**	**76**	**98|**	**Lolium per-Cynos cris Triset flavesc**
C38.111 MG 6a	41	0	90	48	60|	Lolium per-Cynos cris Typical
C81 MG 7a	37	0	45	64	37|	Lolium perenne ley Lol per-Tri rep
C38.111 MG 6b	36	0	85	42	62|	Lolium per-Cynos cris Anthox odorat
C38.111 MG 6	36	0	83	43	60|	Lolium per-Cynos cris

Site 14C-Q2		Parameters =	Nobryo	Domin	Cov on	
C38.111 MG 6c	**78**	**0**	**75**	**79**	**88|**	**Lolium per-Cynos cris Triset flavesc**
C38.111 MG 6a	61	0	80	64	79|	Lolium per-Cynos cris Typical
C37.242 MG11a	57	0	59	70	57|	Fes rub-Agr sto-Pot ans Lolium perenne
C38.111 MG 6	54	0	69	57	77|	Lolium per-Cynos cris
C81 MG 7a	49	0	35	99	37|	Lolium perenne ley Lol per-Tri rep

Site 15/16-Q1		Parameters =	Nobryo	Domin	Cov on	
C31.812 W21a	**86**	**0**	**100**	**86**	**100|**	**Crat mono-Hedera scrub Hed hel-Urt dio**
C31.812 W21	84	0	100	84	100|	Crat mono-Hedera scrub
C31.812 W21d	74	0	93	74	97|	Crat mono-Hedera scrub Viburn lantana

C31.812 W21c	73	0 84 73 100|	Crat mono-Hedera scrub Brach sylvatic
C31.812 W21b	59	0 94 59 100|	Crat mono-Hedera scrub Mercur perennis
Site 15/16-Q2		Parameters =	Nobryo Domin Cov on
C31.812 W21	**81**	**0 100 81 100|**	**Crat mono-Hedera scrub**
C31.812 W21a	68	0 100 69 87|	Crat mono-Hedera scrub Hed hel-Urt dio
C31.811 W24	55	0 64 76 52|	Rub fr-Hol la underscb
C41.41 W 8e	54	0 97 54 100|	Fra exc-Ace cam-Mer per Geranium robert
C31.811 W24a	53	0 65 73 51|	Rub fr-Hol la underscb Cir arv-Cir vul
Site 15/16-Q3		Parameters =	Nobryo Domin Cov on
C31.812 W21	**81**	**0 100 81 100|**	**Crat mono-Hedera scrub**
C31.812 W21a	69	0 100 70 89|	Crat mono-Hedera scrub Hed hel-Urt dio
C41.41 W 8e	55	0 97 55 100|	Fra exc-Ace cam-Mer per Geranium robert
C31.811 W24	53	0 64 76 49|	Rub fr-Hol la underscb
C31.812 W21c	53	0 68 55 81|	Crat mono-Hedera scrub Brach sylvatic
Site 17-Q1		Parameters =	Nobryo Domin Cov on
C15.35 SM28	**65**	**0 27 89 58|**	**Elym repens salt-marsh**
C87.2 OV25	48	0 46 78 43|	Urtic-Cir arv tall herb
C18.2 MC 9c	46	0 38 63 48|	Fest rubra-Holcu lanat Achill millef
C87.2 OV25b	45	0 42 73 42|	Urtic-Cir arv tall herb Ely rep-Art vul
C18.2 MC 9e	45	0 37 62 47|	Fest rubra-Holcu lanat Anthox odorat
Site 17-Q2		Parameters =	Nobryo Domin Cov on
C35.12 U 4b	**57**	**0 81 66 62|**	**Fes ovi-Agr cap-Gal sax Hol lan-Tri rep**
C38.111 MG 7c	50	0 87 53 77|	Lol pere flood-pasture Lol-Alop-Fes pr
C38.111 MG 7d	47	0 87 51 70|	Lol pere hay-meadow Lol per-Alo pra
C18.2 MC 9e	41	0 69 50 57|	Fest rubra-Holcu lanat Anthox odorat
C35.22 U 1f	36	0 48 63 35|	Fes ovi-Agr cap-Rum acl Hypoch radicata
Site 17-Q3		Parameters =	Nobryo Domin Cov on
C37.213 MG 9	**95**	**0 100 100 92|**	**Holc lana-Desch cespit**
C37.213 MG 9a	92	0 100 100 86|	Holc lana-Desch cespit Poa trivialis
C37.213 MG 9b	55	0 90 60 71|	Holc lana-Desch cespit Arrhen elatius
C36.1121 U11	47	0 42 95 37|	Polyt sexa-Kiaeria star
C36.1123 U13	45	0 62 65 45|	Desch cesp-Galium saxat
Site 18-Q1		Parameters =	Nobryo Domin Cov on
C18.2 MC 9	51	0 49 53 79|	Fest rubra-Holcu lanat
C38.111 MG 6c	**50**	**0 64 54 72|**	**Lolium per-Cynos cris Triset flavesc**
C35.12 U 4b	49	0 52 50 84|	Fes ovi-Agr cap-Gal sax Hol lan-Tri rep
C82.1 OV10d	46	0 39 84 39|	Poa ann-Senec vulg weed Dac glo-Agr cap
C18.2 MC 9b	44	0 40 49 68|	Fest rubra-Holcu lanat Dactyl glomer
Site 18-Q2		Parameters =	Nobryo Domin Cov on
C35.12 U 4b	**67**	**0 75 71 76|**	**Fes ovi-Agr cap-Gal sax Hol lan-Tri rep**
C38.111 MG 6c	63	0 92 64 88|	Lolium per-Cynos cris Triset flavesc
C35.22 U 1f	55	0 41 99 43|	Fes ovi-Agr cap-Rum acl Hypoch radicata
C18.2 MC 9e	50	0 59 56 68|	Fest rubra-Holcu lanat Anthox odorat
C38.111 MG 6b	44	0 90 46 81|	Lolium per-Cynos cris Anthox odorat
Site 18-Q3		Parameters =	Nobryo Domin Cov on

C38.111 MG 6c	**84**	**0**	**81**	**84**	**93|**	**Lolium per-Cynos cris**	**Triset flavesc**
C87.2 OV23d	72	0	85	100	60|	Loli-Dactyl weedy grass	Arr ela-Med lup
C81 MG 7e	70	0	71	85	65|	Lol pere verges & lawns	Lol per-Pla lan
C35.12 U 4b	52	0	66	66	54|	Fes ovi-Agr cap-Gal sax	Hol lan-Tri rep
C38.111 MG 7d	52	0	65	63	57|	Lol pere hay-meadow	Lol per-Alo pra

Site 19-Q1		Parameters =				Nobryo	Domin Cov on
C41.41 W 8e	**72**	**0**	**52**	**77**	**76|**	**Fra exc-Ace cam-Mer per**	**Geranium robert**
C31.812 W21b	64	0	42	77	61|	Crat mono-Hedera scrub	Mercur perennis
C31.812 W21	57	0	34	77	54|	Crat mono-Hedera scrub	
C31.812 W21a	39	0	34	56	44|	Crat mono-Hedera scrub	Hed hel-Urt dio
C31.812 W21c	38	0	22	66	37|	Crat mono-Hedera scrub	Brach sylvatic