

Arbtech Consulting Ltd

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23rd June 2015

Dear Mr Higham,

RE: NVC Survey at '29 Harbour Road'

My name is Craig Williams BSc (Hons.), MSc, GradCIEEM and I write to you as an Ecological Surveyor for Arbtech Consulting Ltd.

Arbtech were instructed by yourself to undertake a National Vegetation Classification (NVC) survey on the site of '29 Harbour Road, Pagham, Bognor Regis, Sussex. PO214TF' (central grid reference: SZ89029724).

This was to provide information on the vegetation communities present than the previous phase 1 habitat survey undertaken for the site on 2nd January 2014. The survey site is within a 400m buffer zone introduced by policy ENV DM2 from Pagham Harbour SSSI, RAMSAR, SPA, LNR, and as such the vegetation communities on site require special attention to ensure that they are not noteworthy, given the proximity to this protected area.

The site was visited by myself on 22nd June 2015 for this survey. The site location weather conditions and methodology are below:

Location	Value
Postcode	PO214TF
Grid Reference	SZ89029724
County	West Sussex
Area (Ha)	~0.097
Abiotic Factor	Value
Temperature	13°C
Precipitation	Light Rain
Cloud cover	100%
Wind	1/8
Humidity	94%

The weather conditions and season were suitable for the survey. The entire development site was surveyed to identify plant species. The area of the survey is defined by the extent of the development boundary (see Figure 1 appendix I).

Methodology

10 2mx2m quadrats were used to sample the vegetation from around the sites, in both of the distinctive vegetation communities of the development site. The site was

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small and simple enough to sample across all of it, and separate species lists and DAFOR values were created.

Community Results

The species lists and approximate cover based on the DAFOR scale were analysed using floristic keys and the MAVIS computer program to identify the best NVC community fit.

Communities identified:

MAVIS Correlation	NVC code	Name of NVC Community
32.96	OV23d	(<i>Lolium perenne-Dactylis glomerata</i> community)
19.19	W21a	(<i>Crataegus monogyna-Hedera helix</i> Community)

Justification

OV23d (*Lolium perenne-Dactylis glomerata* community)

This community made up the vast majority of the survey site. Since the soil profile is very shallow and non-existent in places (the reclaimed hard standing floor of the boat yard shows through in large patches), it would appear more ruderal species were present in this community than would otherwise be expected, and resulted in a moderately low MAVIS score of 32.96. However, the abundance of *Lolium perenne* accompanied by the presence of occasional *Dactylis glomerata* amongst ruderal forbs tolerant of trampling supports this designation. Any subcommunity is likely to be *Arrhenatherum elatius-Medicago lupulina* sub-community as both of these were found around the site.

W21a (*Crataegus monogyna-Hedera helix* Community)

This community was a small strip of boundary vegetation, upon a raised earthen boundary along the north of the site. It was little more than Ivy dominated ground with some emergent woody shrubs, which is likely why the MAVIS correlation of 19.19 is low as the low number of species isn't fully supportive of any category.

Evaluation

Both of these habitats are common and widespread, even at a local level. The proposed development will not adversely affect any rare floral communities, or the protected site of Pagham Harbour in any way.

Yours sincerely,



Craig Williams. B.Sc. (Hons.) MSc. GRAD.I.E.E.M.

Ecological Surveyor, Bat and Newt Worker at Arbtech Consulting Ltd.

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Appendix I: Figure 1: Map of vegetation communities on site

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Appendix II: Full species lists of the vegetation communities

NVC: OV23d 32.96 (*Lolium perenne*-*Dactylis glomerata* community)

Scientific binomial	Common Name	DAFOR rating
<i>Achillea millefolium</i>	Yarrow	R
<i>Agrostis stolonifera</i>	Creeping bent	O
<i>Allium roseum</i>	Rosy garlic	R
<i>Anagallis arvensis</i>	Scarlet pimpernel	R
<i>Arrhenatherum elatius</i>	False oat grass	O
<i>Artemisia vulgaris</i>	Mugwort	R
<i>Buddleia</i> spp.	Buddleia	R
<i>Cirsium vulgare</i>	Spear thistle	R
<i>Convolvulus arvensis</i>	Field bindweed	R
<i>Dactylis glomerata</i>	Cocks foot	O
<i>Daucus carota</i>	Wild carrot	R
<i>Festuca pratensis</i>	Meadow fescue	R
<i>Festuca rubra</i>	Red fescue	A
<i>Foeniculum vulgare</i>	Fennel	R
<i>Hieracium</i> spp.	Hawkweed	R
<i>Senecio squalidus</i>	Oxford Ragwort	R
<i>Lagurus ovatus</i>	Hare's tail grass	R
<i>Lamium album</i>	White deadnettle	R
<i>Lapsana communis</i>	Nipplewort	R
<i>Lolium perenne</i>	Perennial rye grass	A
<i>Lotus corniculatus</i>	Birds foot trefoil	R
<i>Medicago lupulina</i>	Black Medic	R
<i>Plantago lanceolata</i>	Ribwort plantain	A
<i>Plantago maritima</i>	Sea plantain	R
<i>Rosa canina</i>	Dog rose	R
<i>Rubus fruticosus</i>	Bramble	R
<i>Rumex acetosella</i>	Sheep's sorrel	R
<i>Trifolium arvense</i>	Hairs foot clover	R
<i>Trifolium pratense</i>	Red clover	R
<i>Vicia sepium</i>	Bush vetch	R

NVC: W21a 19.19 (*Crataegus monogyna*-*Hedera helix* Community)

<i>Hedera helix</i>	Ivy	D
<i>Crataegus monogyna</i>	Hawthorn	O
<i>Rubus fruticosus</i>	Bramble	O
<i>Prunus spinosa</i>	Blackthorn	O

Appendix III - Photos



Figure 2: Site looking south-west



Figure 3: Site looking north-east.

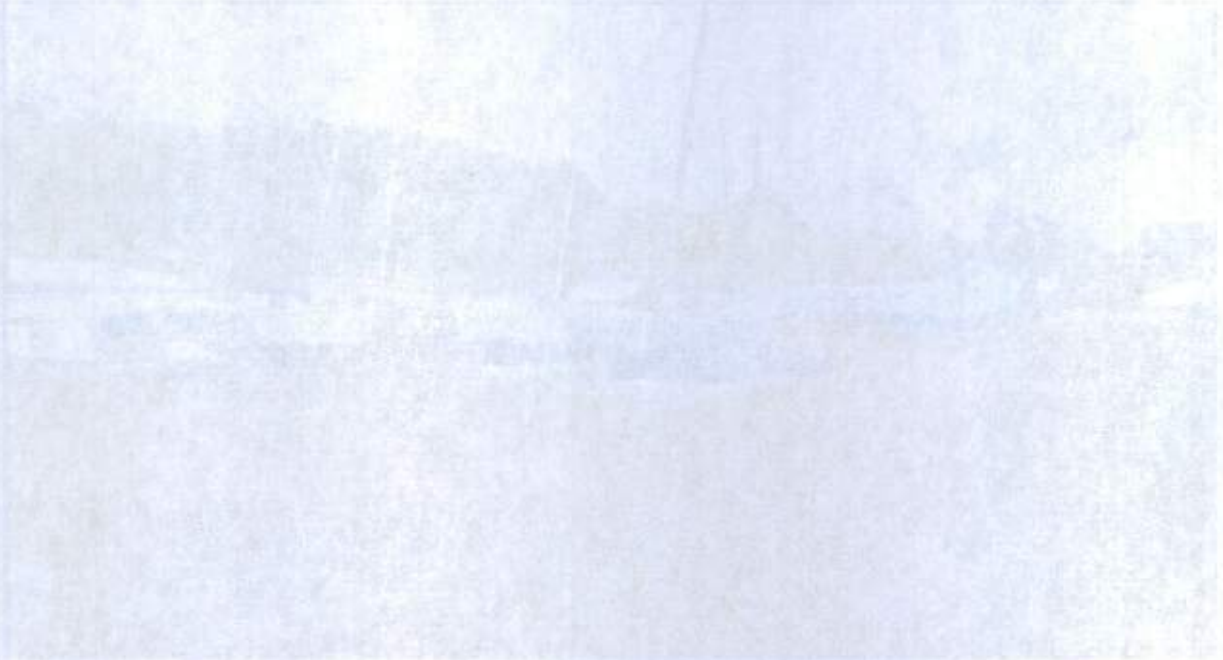


Figure 1: Aerial view of the coastal area

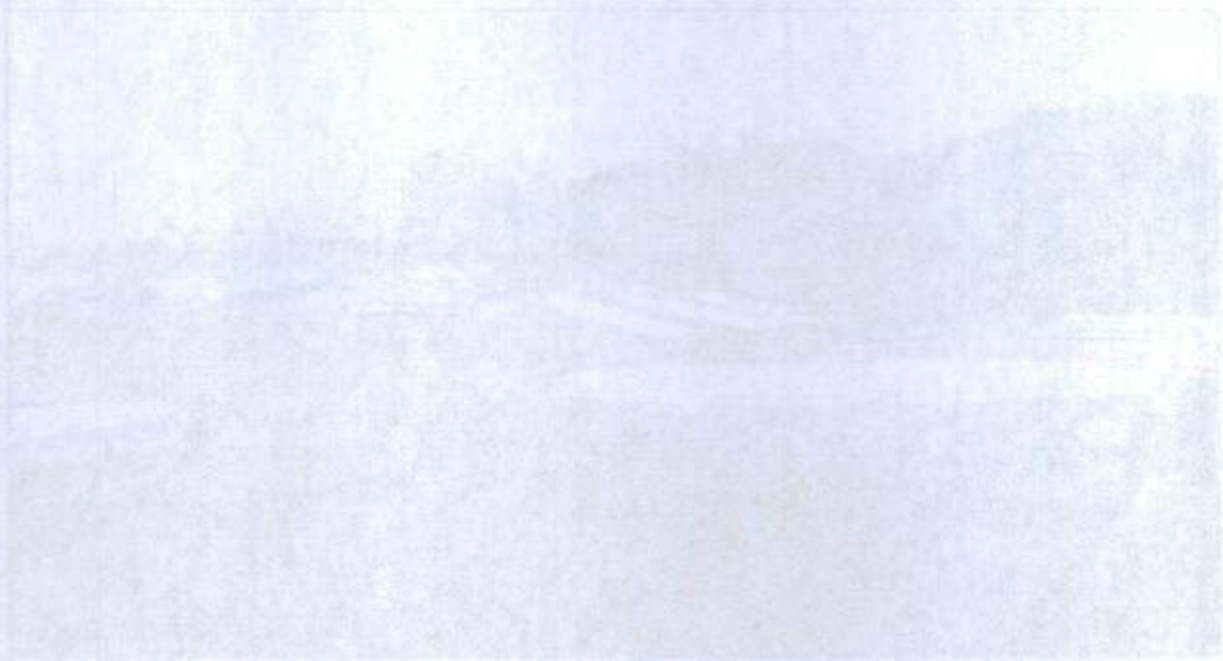


Figure 2: Aerial view of the coastal area