Improvement Programme for England's Natura 2000 Sites (IPENS) – Planning for the Future IPENS026

Condition monitoring of saltmarsh features in The Wash and North Norfolk Coast SAC: Volume 2 - North Norfolk Coast

North Norfolk Coast Special Area of Conservation (SAC)

First published 30 October 2015

www.gov.uk/government/publications/improvement-programme-for-englands-natura-2000-sites-ipens

This project is part of the IPENS programme (LIFE11NAT/UK/000384IPENS) which is financially supported by LIFE, a financial instrument of the European Community.

Foreword

The **Improvement Programme for England's Natura 2000 sites (IPENS)**, supported by European Union LIFE+ funding, is a new strategic approach to managing England's Natura 2000 sites. It is enabling Natural England, the Environment Agency, and other key partners to plan what, how, where and when they will target their efforts on Natura 2000 sites and areas surrounding them.

As part of the IPENS programme, we are identifying gaps in our knowledge and, where possible, addressing these through a range of evidence projects. The project findings are being used to help develop our Theme Plans and Site Improvement Plans. This report is one of the evidence project studies we commissioned.

Field surveys of the saltmarsh habitat within the North Norfolk Coast Special Area of Conservation (SAC) were conducted in 2013. The area was surveyed between Holme and Morston.

The aim of the project was to carry out a National Vegetation Classification (NVC) survey and map the saltmarsh plant communities in order to provide evidence for assessing changes within the site and to be able to monitor future changes. Details on management, habitat quality, and issues currently impacting on, or with the potential to impact on features were recorded.

The report identifies changes within the site since 2003, such as a reduction in the areas of pioneer marsh and Atlantic sub-features, while Cordgrass and Mediterranean sub-features have increased in area. Changes in extent of saltmarsh features due to erosion and accretion were noted at a number of sites within the study area.

The report indicates that human impacts are minimal across the saltmarshes, with the most significant anthropogenic pressures relating to historic drainage and tourist pressure. The absence of grazing within the site has allowed a diverse range of saltmarsh vegetation communities to develop. The presence of *Spartina anglica* has also been highlighted in the report as requiring ongoing monitoring to assess its impacts on existing Annex I habitat types.

Issues identified within the report have been incorporated into The Wash and North Norfolk Coast Site Improvement Plan.

The key audience for this work is the staff within Natural England and land managers and it will be used to inform management requirements within the site.

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ISBN 978-1-78354-221-5

Condition monitoring of saltmarsh features in the Wash and North Norfolk Coast SAC: Volume 2 - North Norfolk Coast

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This report should be cited as:

Haynes and Beal (2014) *Condition monitoring of saltmarsh features in the Wash & North Norfolk Coast SAC: Volume 2 The North Norfolk Coast. Final Report*. Natural England.

Acknowledgements

We would like to thank members of Natural England for their assistance with access and survey planning, specifically the staff at The National Trust.

Thanks are extended to Fiona Tibbitt and Jennifer Fincham of Natural England for their project management input.

Additional thanks go to the Natural England and Environment Agency staff for supplying the aerial photography.

Summary

Condition monitoring of the North Norfolk Special Area of Conservation (SAC) was conducted using the National Vegetation Classification (NVC) methodology to identify relevant communities and sub-communities of vegetation. This was combined with the Common Standards Monitoring (CSM) methodology to assess the overall condition of the saltmarsh features.

The saltmarsh features present along 14 transects were surveyed between Holme and Morston from the 14th August to 30th August 2013. This report presents the results of these surveys.

The North Norfolk SAC was designated in 2005 after previously being awarded cSAC status. Among the qualifying features are the Annex I habitats: *Salicornia* and other annuals colonising mud and sand; Atlantic salt meadows (Glauco-Puccinellietalia maritimae) and Mediterranean and thermo-Atlantic halophilous scrubs (Sarcocornetea fruticosi). This report was commissioned as part of the reporting process required for these features under the Habitats Directive (Council Directive 92/43/EEC).

The North Norfolk SAC was previously surveyed by Posford Haskoning in 2001/2002 and reported as "NVC Survey of Saltmarsh and Other Habitats in the North Norfolk European Marine Site Volume I" (Posford Haskoning Ltd, 2003). The aim of the 2013 survey was to survey and map the saltmarsh plant communities of the SAC, repeating the transects of the 2003 report.

NVC quadrat data was collected in the field and processed using the floristic tables in British Plant Communities (Rodwell, 1991a, 1991b, 1992, 1995, 2000) and TableFit software (Hill, 1996).

Across the 14 transects, 279 quadrats were recorded and used to construct floristic tables. Target notes were taken at all sites recording points of interest, community transitions and saltmarsh extent. Points of interest included significant saltpans, large creeks, and evidence of management/grazing. Vegetation communities and sub-communities are presented in a Geographical Information System (GIS) database. This database has been produced at 1:5,000 scale and overlayed with high-resolution aerial photography.

The saltmarsh communities recorded included SM6 (*Spartina anglica* saltmarsh); SM8 (Annual *Salicornia* saltmarsh); SM9 (*Suaeda maritima* saltmarsh); SM11 (*Aster tripolium* var. *discoideus* saltmarsh community); SM13c (Limonium vulgare-Armeria maritima sub-community); SM14a (*Halimione portulacoides* dominant sub-community); SM14c (*Puccinellia maritima* sub-community) and SM25 (*Suaeda vera* drift-line community).

Creeks and pans were mostly found to be forming naturally with minimal human influences (across the 14 transects). Localised areas of surface erosion were present at Holkham and Morston. Lateral erosion at the front of the marsh was observed at Stiffkey.

Contents

1 Introduction

This report details the findings of surveys undertaken on saltmarsh habitat within the North Norfolk SAC. These surveys were undertaken as part of Natural England's continuing monitoring and surveillance work and to support an assessment of the condition of saltmarsh habitat in accord with the European Commission's Habitats Directive (Council Directive 92/43/EEC). This survey utilised the National Vegetation Classification (NVC) methodology to sample and survey saltmarsh vegetation (Rodwell, 2000).

The following section of the report (section 2) focuses on the methodologies of the fieldwork and GIS mapping. Section 3 provides details the findings of the transect surveys. Section 4 provides information on the saltmarsh habitats of the North Norfolk SAC as a whole and comparisons with previous studies. The appendices include a full list of target notes and NVC vegetation samples.

Attached with this report are the following documents:

- High resolution maps
- High resolution photos used in the report
- Samples spreadsheet
- Target Notes spreadsheet
- GPS Tracks spreadsheet
- GIS layers (in .tab and .shp formats)

Note: On 5th December 2013 a severe storm surge occurred along the North Sea coast of Britain. A combination of unusually low pressure, strong onshore winds and high 'spring' tides created conditions for the worst storm surge witnessed in the North Sea since January 1953. The North Norfolk SAC saltmarshes were severely affected by these events and the coastline has been altered significantly as a result. This should be taken into consideration when analysing the findings of this report.

2 Methodology

2.1 Site selection

Saltmarsh survey transects were erected as part of previous research into the saltmarshes of the North Norfolk SAC (Posford Haskoning Ltd, 2003). The Posford's surveys established 14 transects across the saltmarshes. Each of these transects was revisited as part of the current survey in August 2013. See Table 2-1 for further details.

Table 2-1: List and dates of transect surveys in August 2013

Site Name	Transect Code	Surveyors	Date
Brancaster (North)	N1C7	T.Haynes & R.Haynes	14/08/2013
Brancaster (South)	N1C7	T.Haynes & R.Haynes	15/08/2013
Burnham	N1A1	T.Haynes & R.Haynes	15/08/2013
Burnham and Scolt Head	N1B3	T.Haynes & R.Haynes	16/08/2013
Holme	N1D6A	T.Haynes & S.Beal	19/08/2013
Holme	N1C2	T.Haynes & S.Beal	20/08/2013
Holkham	N/A	T.Haynes & S.Beal	21/08/2013
Thornham (Transect 1)	N/A	T.Haynes & S.Beal	22/08/2013
Thornham (Transect 2)	N1C3	T.Haynes & S.Beal	22/08/2013
Stiffkey	N2D4	T.Haynes & S.Beal	26/08/2013
Warham	ND2D	T.Haynes & S.Beal	27/08/2013
Morston	N2C4	T.Haynes & S.Beal	28/08/2013
Morston	N2C3	T.Haynes & S.Beal	29/08/2013
Stiffkey	N2D6	T.Haynes & S.Beal	30/08/2013

Access was not possible to some of the original transects. For example, the long transect at Burnham and Scolt Head was difficult to access as it traverses a wide creek. In these instances the transects were re-sited to locations that were easier to access. The route of each transect is illustrated on the maps in Section 4.

2.2 Taxonomy and species terminology

All species information collected as part of the surveys follow the naming conventions identified below in Table 2-2.

Table 2-2: Taxonomic nomenclature references.

Taxa	Nomenclature reference
Flowering plants	Botanical Society of the British Isles species checklist (2007)
Mosses and Liverworts	British Bryological Society species checklist (2008)
Seaweeds	A Checklist and Atlas of the Seaweeds of Britain and Ireland. 2nd corr. ed. (Hardy and Guiry 2006)
Lichens	Checklist of Lichens of Great Britain and Ireland (Coppins 2002)

Where a species was not fully identified the abbreviation 'sp.' is used after the genus name (e.g. *Salicornia* sp.). Where more than one species is described, the abbreviation 'spp.' is

used after the genus name. ‘x’ within a scientific name relates to a hybrid while sub-species are described using the abbreviation ‘subsp'.

Salicornia spp.

All *Salicornia* spp. recorded and observed are referred to throughout the report as *Salicornia europea* agg. This group is comprised of *Salicornia europea, Salicornia ramosissima* and *Salicornia obscura.*

Little variations between *Salicornia europea* agg. individuals was observed during the surveys and it was concluded that all species are likely to belong to the *S. europea* variety. The *Salicornia* stands at Holme warrant further investigation (see TN087 in the appendices).

Inbreeding is known to occur between these species which can result in locally distinctive populations (Stace, 2010). This can lead to difficulties in identifying individuals to species level. As a result these species have been grouped together.

It should be noted that no *Sarcocornia perennis* species were observed during the surveys.

Spartina spp.

All *Spartina* spp. are believed to belong to the *Spartina anglica* and have been referred to as such throughout the report. This is a possibility that the infertile hybrid *Spartina x townsendii* is also present. A photographic record of *Spartina* anther size was collected from most sites during the survey and most conformed to *Spartina anglica* (anthers between 5-7mm).

Limonium spp.

Limonium binervosum, Limonium vulgare and *Limonium bellidfolium* were all recorded as present on the North Norfolk SAC saltmarshes. Identification was confirmed using keys provided in New Flora of the British Isles (Stace, 2010) and The Wild Flower Key (Rose, 2006).

Samples of possible *Limonium humile* individuals were taken from most sites, but analysis revealed these to be *Limonium vulgare.*

Aster tripolium

Two forms of *Aster tripolium* (rayed and rayless) were recorded on the North Norfolk SAC saltmarshes.

The rayless form (*Aster tripolium* var. *discoideus*) is no longer recognised taxonomically and is now considered as variance in the main *Aster tripolium* species. However, this separation distinguishes SM11 and SM12 NVC communities. Where the rayless form of *Aster tripolium* was recorded it is noted as *Aster tripolium* (Rayless) in samples.

2.3 Field Survey Planning

Transects were investigated using: Mapinfo GIS software; 1:25,000 Ordnance Survey maps; 1:10,000 Ordnance Survey maps; Natural England’s aerial photography collection and previous site reports.

Access roads and footpaths were assessed and any difficulties with access or site permissions noted. Access points onto saltmarsh sites were then identified and the relevant

landowners contacted by Natural England officers to confirm the date and the areas requiring access. Any additional information regarding site risks and health & safety were also collated.

2.4 Field surveys

NVC classification

All sites were assessed for vegetation communities matching those published in the five volumes of the British Plant Communities (Rodwell, 1991a, 1991b, 1992, 1995, 2000).

Classification was undertaken by identifying changes in vegetation communities or repeating patterns of homogenous areas in the walk-over surveys. Once variations in the community structures became apparent, vegetation sampling took place. NVC communities were later assigned to each area based on analysis of the floristic tables in British Plant Communities (Rodwell, 1991a, 1991b, 1992, 1995, 2000) and analysis using TableFit software (Hill, 1996).

Vegetation sampling

Vegetation sampling took place once variations and changes in vegetative structure were identified. Vegetation sampling was undertaken using the NVC methodology (Rodwell 2006). Between one and nine quadrat samples of each saltmarsh sub-community were collected from each transect. There are some instances where each saltmarsh sub-community present was not sampled. Reasons for this include:

- Post-survey reclassification of the NVC types
- Inaccessible vegetation
- Vegetation initially identified on site but not observed again in sampling phase.
- Site conditions (e.g. weather and tide coming in)

Habitat mapping

Transects were normally walked from the landward border out to the seaward edge of the saltmarsh. Every change in vegetation community structure was recorded on a handheld GPS unit.

The GPS unit was also used to provide additional information in instances where significant expansions or declines in saltmarsh area were detectable in comparison with the aerial photography. Such methods of assessment were also important when assessing finer details and sparser vegetation types which were not visible or clear on the photographs.

Mosaic mapping

Vegetation community types can often occur in mosaic formations and repeating patterns. Such linked vegetation community types can occur across large areas, showing little variation.

In these instances, a mosaic mapping method is required. This is especially useful when mapping saltmarsh communities as these rarely occur in ‘text book’ zonation’s (i.e. Pioneer/Lower/Middle/Upper/Drift-line). Instead, local topography (creek, pans, etc.) can greatly affect the distribution of communities, many of which are too small to map individually.

The method utilised was based on the mosaic mapping method developed by Dargie (2000a). Repeating patterns of individual NVC vegetation types were assessed in the field and then the area of the mosaic was noted. An estimate of the cover of each component of

the mosaic was then noted as a proportion out of ten. This means that for each mapped area of a mosaic, all the constituent components will total up to ten portions, being the total area of the mapped polygon. Examples are presented below:

Mosaic polygon 1: SM13a (6) + SM16a (4) = 10 portions

Mosaic polygon 2: SM13a (3) + SM16a (3) + SM16d (4) = 10 portions

This mosaic mapping scheme is size-dependent and some elements of a mosaic are too small to be separated accurately i.e. they cover much less than 10% of the polygon. In such instances the information was considered to be at too fine a level of detail for the mosaic mapping to detect and this information was target noted.

Any polygon with more than one NVC sub-community within it was considered a mosaic. Note that this included multiple types of saltmarsh sub-community. Mosaic mapping also included land cover types that take account of different substrates and vegetation structures (eg sand dunes, mesotrophic grassland, bare mud, etc.).

Mosaic information was provided in weighted order with the largest proportions beginning the mosaic description (e.g. 'SM16a (9) + SM13a (1)'). Where a mosaic was equally proportional, then the descriptions are provided in numerical/alphabetical order (eg 'SM13a (5) + SM13b (5)').

Detailed NVC maps are found in the appendices.

Land cover types and open/sparse vegetation

As discussed in the previous section, there are instances where further information was required regarding the substrate and associated land use of sites, which do not adequately fit with the NVC classification. In these instances an adaptation of Dargie's method of classifying land cover types was used (Dargie 2001). The core land cover types developed by Dargie, which are an adaptation from the JNCC Phase I classification (JNCC, 2010), are indicated as abbreviations (eg: BS = Bare Sand and BSH = Bare Shingle).

Creeks, pans and drainage ditches

The size, depth and shape of creeks were too complicated to assess fully. This is mainly due to the sheer number and variation of creeks and pans on each site. Notes regarding the structure of creeks, pans and drainage ditches are included as target notes along with relevant photographs. Large pans, creeks and drainage ditches sometimes support distinct vegetation communities. Where such communities are distinct at a scale of 1:5,000, they are mapped. Areas below the mapping resolution are target-noted.

Site Condition Monitoring

Saltmarsh condition was assessed based on common standards guidance for monitoring saltmarsh habitat (JNCC, 2004). The condition of saltmarshes were split into the following Habitats Directive Annex I habitat types that are identified in the UK:

- H1310 - *Salicornia* and other annuals colonising mud and sand (Pioneer saltmarsh)
- H1330 - Atlantic salt meadows (*Glauco-Puccinellietalia maritimae*) (Atlantic saltmarsh)
- H1320 *Spartina* swards (Spartinion maritimae)
- H1420 - Mediterranean and thermo-Atlantic halophilous scrubs (*Sarcocornetea fruticosi*) (Mediterranean saltmarsh)

Pioneer saltmarsh was considered to be SM8 and SM9. Atlantic saltmarsh was considered to be any of the saltmarsh NVC types SM10 to SM20. Mediterranean saltmarsh was considered to be any saltmarsh within the SM21 and SM25 categories.

Spartina maritima,*Spartina alterniflora and S.* x *townsendii* were searched for during the 2013 field surveys but no evidence was found. The only *Spartina* sp. confirmed was *Spartina anglica* (SM6) which does not qualify under the Annex I *Spartina* sward community.

Target Notes and Site Walks

All data regarding target notes and site walks were collected using handheld GPS units. Targets notes were collected using the 'waypoint' feature of the GPS software. For the majority of surveys each waypoint was assigned an automatic, rolling number (by the GPS), which was noted on field sheets for cross referencing. The original reference number is included within the target note sheets for each site to retain a link with the raw data sources. All target note data sheets are presented in the appendices.

Site walks were recorded using the GPS unit's automatic tracking capability, which records automatic points every 10-15 seconds.

GPS units were set to Longitude/Latitude using the WGS84 projection. Each unit is able to display projected coordinates using the British National Grid System, but the core units are provided in Longitude/Latitude format.

Many GPS units identify their precision up to 3m away from the original point. In practice such precision is not reliable and 5-10m precision should be considered a more cautious estimate. It is also important to remember that the layout of the surroundings (e.g. dense tree cover) and the triangulation of satellites at the time of survey can also affect the accuracy of target notes and tracks. Such information is displayed on the screen of some GPS models, but it is impractical to review on a regular basis (this is noteworthy regarding automatically generated site walk data). For target notes it was ensured that the GPS was indicating the finest accuracy possible (approx. 3m) before each target note was recorded.

Photography

A selection of photographs are provided, which illustrate the size and shape of the site, key features relating to site condition and photos of samples and other relevant information.

Standard practice for taking pictures of samples was for a series of shots to be taken from the same position including: close-up shots of the vegetation; pictures of the sample's position in its immediate surroundings; and pictures of the sample in the wider area.

Health & Safety

Saltmarsh surveying has a number of unique risks associated with it that required mitigation to ensure field surveyor safety was maintained. Noteworthy and unique risks include:

- Quicksand and unstable mud
- Deep creeks
- Tidal fluctuations

NatureBureau operated a call-in system for all surveyors, requiring them to phone in at pre-arranged times while undertaking field visits.

All surveyors also carried an emergency Spot Satellite GPS Messenger (Spot LLC, 2013), which allowed a surveyor's location to be monitored by NatureBureau and included an

emergency button that would transmit an emergency location signal to the GEOS International Emergency Response Centre. Surveyors also carried a life jacket where appropriate. Tide times were also monitored by surveyors on a regular basis.

Quicksand and mud can be hazardous, particularly when crossing larger creeks or drainage channels with an unstable substrate.

The main risk to surveyors relates to hidden and deep creeks, which can be very difficult to see through tall grass on some sites.

2.5 GIS Mapping

The GIS software used was Mapinfo v12 and was used for GIS database development, mapping, data collation and analysis.

Software settings

The core projection used while digitising maps and collating data sets was British National Grid (EPSG: 27700) using a Spherical Distance/Area measurement. Statistics and area/perimeter calculations were undertaken using the same projection profile.

Base mapping

The field surveys utilised the Natural England base mapping library of the North Norfolk coastline with the following datasets used:

- 1:25,000 Scale Raster Ordnance Survey Maps - 10km x 10km tiles
- 1:2,500 Scale Raster Getmapping Vertical Aerial Photography - 1km x 1km tiles

Ordnance Survey maps were mainly used for navigating access to sites. The low accuracy and detail on both Ordnance Survey datasets make them difficult to use for habitat mapping purposes.

Mapping scale

All digital mapping was undertaken at a scale 1:5,000.

Habitat mapping

Habitat mapping was overseen or undertaken by field surveyors to ensure the accuracy of the maps was maintained.

Polylines were traced onto the GIS platform with a matched back drop and scale. The lines were than approved by the field surveyor who drew the original maps. Maps were drawn with a graphics tablet using MapInfo's auto-node function (10 pixel draw distance), allowing the borders of vegetation to be mapped to the aerial photography more accurately.

The target notes and samples collected in the field (using GPS units) were used to confirm community types and transitions in the GIS system. NVC community types and other land cover codes were added into the GIS attribute table once individual polygons were created.

Polygon creation

Polygons were created by tracing around the polylines created as described in the previous section. 'Holes' were cut out of polygons in instances where a polygon was located entirely within a larger polygon. This ensured that no polygons overlapped in the dataset.

Polygon joins were created by tracing around the adjoining edge to ensure borders between polygons were shared.

Mosaic polygons

Mosaic polygons were created as described above, but with additional information provided in the attribute table which included the mosaic description and an indication that this polygon included mosaic data.

Attribute table content

The attribute table provides valuable information about each saltmarsh polygon including:

- Site name and code
- A unique polygon code
- Site region information
- NVC and land cover types present
- Broad category NVC and land cover types (e.g. SM)
- Area and perimeter
- Coordinates of the centre of each polygon
- Date of survey
- Surveyor names

Most of the data included in the attribute table were added using SQL queries in Mapinfo. All NVC codes and land cover types were entered manually.

Quality control and error checking

An error checking function was used to analyse each set of site polygons for issues such as:

- Overlapping nodes
- Self-intersections
- Gaps between polygons

At this stage a thorough analysis of naming and formatting conventions was undertaken for the entire attribute table.

A version history for the GIS database was also created and documents the major processes and modifications to the database.

Mapping legend

The attribute table for the GIS database includes a column for keying out colours in a map legend. Colour-coding is based on a modification of the JNCC Phase I methodology (JNCC, 2010) in the map images presented in reports.

Map images

The map image templates are produced in jpeg format at a resolution of 150 dpi. Map images were produced using Mapinfo (Pitney Bowes, 2011).

Samples, target notes and tracks

Latitude and longitude data were extracted from the GPS source files for each GPS unit and modified so that they were in a suitable format for entry into the GIS system. Each target note and track point was then loaded into the GIS system as point data. Track maps were

created by converting point data into polylines in chronological order within the GIS system. GPS Tracks and maps are found within the appendices.

3 Site surveys

This section details the individual site and transect surveys and describes the ecology of each section in turn. Sites and transects are described in order from west to east.

When referring to zonation and NVC communities the method supplied in the Common Standards Monitoring for Saltmarsh Habitats has been followed (JNCC, 2004). This information is summarised in Table 4-1 (see p71).

The figures presented for each site show the survey transects in a compatible format to the Volume 1 report and the Posfords surveys. More detailed NVC maps are presented in the appendices and include mosaics and NVC habitat types for the whole North Norfolk SAC.

3.1 **Holme N1D6A**

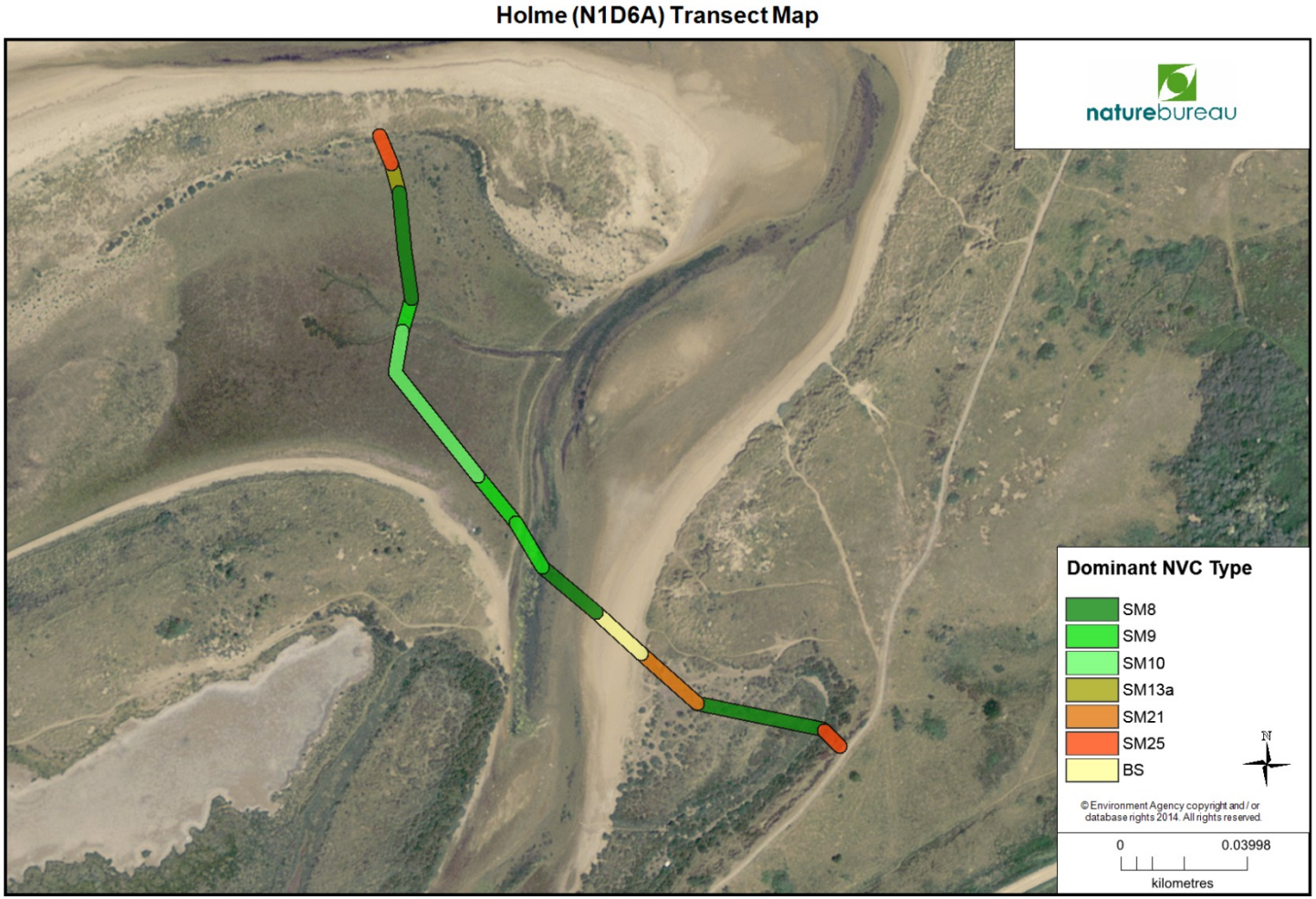

Figure 3-1: Transect Map for Holme N1D6A. Full habitat maps are included in the appendices.

This saltmarsh is situated on the east side of Holme-next-the-Sea and at the north-east border of the Hunstanton Golf Links. The saltmarsh can be accessed via Broadwater Road. This is a small back-barrier marsh sheltered by two parallel sand dune bars and a spit.

The main transitions of the saltmarsh are to sand dune vegetation across the northern sections of the site. Wetland and scrub are also present on the landward borders of the saltmarsh.

The Annex I saltmarsh habitats present are: *Salicornia* and other annuals colonising mud and sand; Atlantic salt meadows, and Mediterranean and thermo-Atlantic halophilous scrubs.

The transect consists of mostly lower marsh while the larger area of saltmarsh to the west is a mixture of upper and middle marsh vegetation. The following sub-communities were recorded across the survey transect:

- SM8 (Annual *Salicornia* saltmarsh)
- SM9 (*Suaeda maritima* saltmarsh)
- SM10 (Transitional low-marsh vegetation with *Puccinellia maritima*, annual *Salicornia* species and *Suaeda maritima*)
- SM13 (*Puccinellia maritima* saltmarsh)
    - SM13a (*Puccinellia maritima* dominated sub-community)
- SM14 (*Halimione portulacoides* saltmarsh)
    - SM14a (*Halimione portulacoides* dominant sub-community)
- SM21 (*Suaeda vera-Limonium binervosum* salt-marsh)
- SM25 (*Suaeda vera* drift-line community)
- SM28 (*Elymus repens* saltmarsh)

Pioneer marsh is present in the form of SM8 and SM9 and can be found across most of the transect. SM8 is found at the southern end of the transect (where *Salicornia europaea* agg. is found in an area of recent disturbance and tidal litter). Larger areas are found on the north side of the transect (between the two sand dune bars). SM9 is also abundant at the northern end of the transect.

There is a large area of SM10 between the two sand dune bars. The constituent components of SM10 include *Salicornia europaea* agg., *Suaeda maritima* and *Puccinellia maritima*. This means that SM10 may change to SM8, SM9 or SM13a from year to year.

SM14a represents the middle marsh community, but is not as abundant on this site as it is on the rest of the North Norfolk SAC sites.

SM21 is a noteworthy community which is restricted across the UK and on the North Norfolk SAC. SM21 includes three noteworthy species: *Suaeda vera*, *Limonium binervosum* and the rare *Limonium bellidifolium* (see Figure 3-2).

Figure 3-2: SM21 with abundant Limonium bellidifolium growing across the sand

SM25 and SM28 occupy areas of wind-blown sand within the saltmarsh areas. SM28 and SM25 are a key component of the larger marsh to the west of the transect.

There is only one wide, but shallow creek present on the transect. This creek is part of an inlet that enters the marsh from the east. There are narrow, but deep creeks present across the larger marsh in the east of the site and large embryo pans are also present. There are less creeks and pans than found on other sites in the North Norfolk SAC, but this is consistent with the nature of back barrier marsh saltmarshes, particularly ones in the earlier stages of development.

Human impacts are minimal on the site. The main human impact observed is trampling by visitors of the pioneer marsh areas. SM8 is eroded at the southern edge of the main creek found on the transect (see Figure 3-3). Trampling of pioneer marsh requires monitoring. There is tidal litter including plastic bottles of fuel near the southern end of the transect. Rabbit grazing is also noted from the site.

Figure 3-3: Erosion of areas of SM8 caused by walkers

3.2 **Holme N1C2**

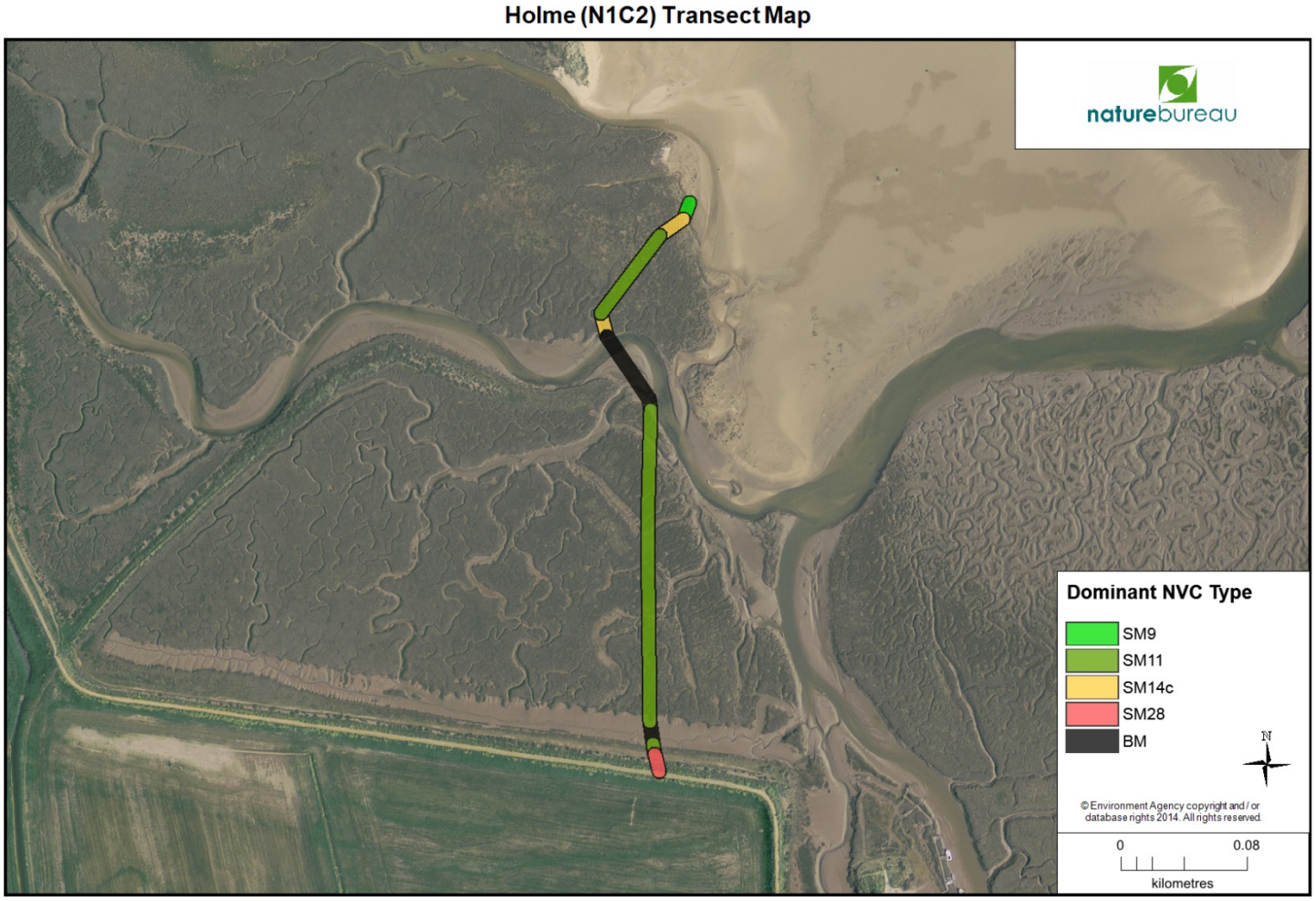

Figure 3-4: Transect Map for Holme N1C2. Full habitat maps are included in the appendices.

This saltmarsh is situated on the east side of Holme-next-the-Sea and is situated at the north-east corner of the Thornham marsh.

This saltmarsh is a small embayment marsh protected by a sand dune and shingle spit. The land to the east and south were saltmarsh in the past, but it is now drained. Large earth banks now border the saltmarsh in the east and south.

The saltmarsh gradually transitions to sand dune vegetation in the north.

The Annex I saltmarsh habitats present are: *Salicornia* and other annuals colonising mud and sand; Atlantic salt meadows, and Mediterranean and thermo-Atlantic halophilous scrubs.

The saltmarsh includes large areas of lower marsh dominated by *Aster tripolium* and is species poor. Patches of middle and upper marsh are also found across the site. The following sub-communities were recorded across the survey transect:

- SM6 (*Spartina anglica* saltmarsh)
- SM8 (Annual *Salicornia* saltmarsh)
- SM9 (*Suaeda maritima* saltmarsh)
- SM11 (*Aster tripolium* var. *discoideus* salt-marsh community)
- SM13 (*Puccinellia maritima* saltmarsh)
    - SM13a (*Puccinellia maritima* dominated sub-community)
- SM14 (*Halimione portulacoides* saltmarsh)
    - SM14a (*Halimione portulacoides* dominant sub-community)
    - SM14c (*Puccinellia maritima* sub-community)
- SM16 (*Festuca rubra* saltmarsh)
    - SM16c (*Festuca rubra-Glaux maritima* sub-community)
- SM25 (*Suaeda vera* drift-line community)
- SM28 (*Elymus repens* saltmarsh)

Pioneer marsh is represented by SM8, SM9 and SM11. Small areas of SM8 are found on the edges of larger creeks, while SM9 was found with *Spartina anglica* at the seaward limit of the marsh (west).

The majority of the marsh was occupied by species poor stands of SM11, which is defined by the rayless form of *Aster tripolium*. SM11 was present in two forms. One form was found inside shallow creeks and at creek edges where *Aster tripolium* was one of the only species present (see Figure 3-5).

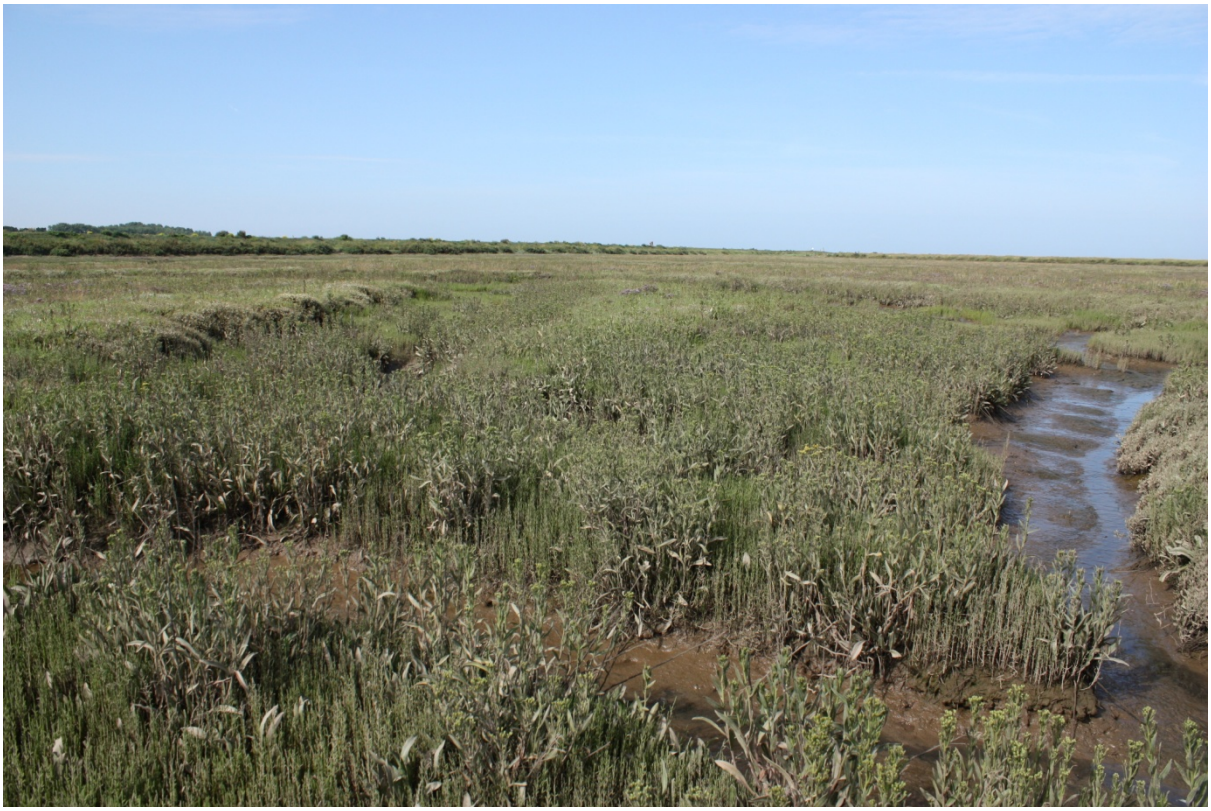

Figure 3-5: Non typical form of SM11 at the edges of creeks

The second form was more typical of the *Aster tripolium* dominated community and included species associates such as *Triglochin maritimum* and *Puccinellia maritima* (see Figure 3-6). Much of these areas of saltmarsh showed signs of previous disturbance including re-colonisation of *Aster tripolium* onto saltmarsh sediment.

Figure 3-6: Typical form of SM11 with more species associates

Spartina anglica is frequent to abundant in areas of SM11.

Atriplex portulacoides is not as abundant as it is on other saltmarshes within the North Norfolk SAC, but is found in the Atlantic salt meadow SM14a and SM14c communities on the southern side of the site.

SM25 with *Suaeda vera* and *Elytrigia repens* is found in the transition zones between saltmarsh and sand dune and over artificial banks. SM28 with *Elytrigia repens* dominated areas are associated with the large earth banks at the landward border of the marsh. S4 with *Phragmites australis* is also in localised patches at the eastern border of the site.

There are very few pans present on this saltmarsh. There are occasional pans found in SM11 areas but they are covered in green algae. Creeks are frequent across the marsh and are of fine dendritic patterning. These creeks are often shallow and muddy. Larger and deeper creeks are also present. Some of the creeks look like they have been modified or disturbed.

This saltmarsh has been impacted by anthropogenic pressures. The majority of the marsh appears to have suffered disturbance, which is possibly related to the earth banks and continuing works landward of the saltmarsh. The material for the earth bank on the southern edge of the saltmarsh was clearly dug from the saltmarsh, which has created a large straight creek. Engineering works were taking place in one of the landward drainage channels on the western border of the marsh at the time of survey.

Disturbance could also relate to changes in the structure of the shingle spit, which might explain the high ratio of soft mud across the saltmarsh (compared to other North Norfolk SAC saltmarshes).

Spartina anglica also appears to be increasing across this saltmarsh. The presence of a deep and soft mud substrate provides beneficial conditions for the species. Dense areas of *Spartina anglica* are found on the western edge of the saltmarsh (see Figure 3-7)

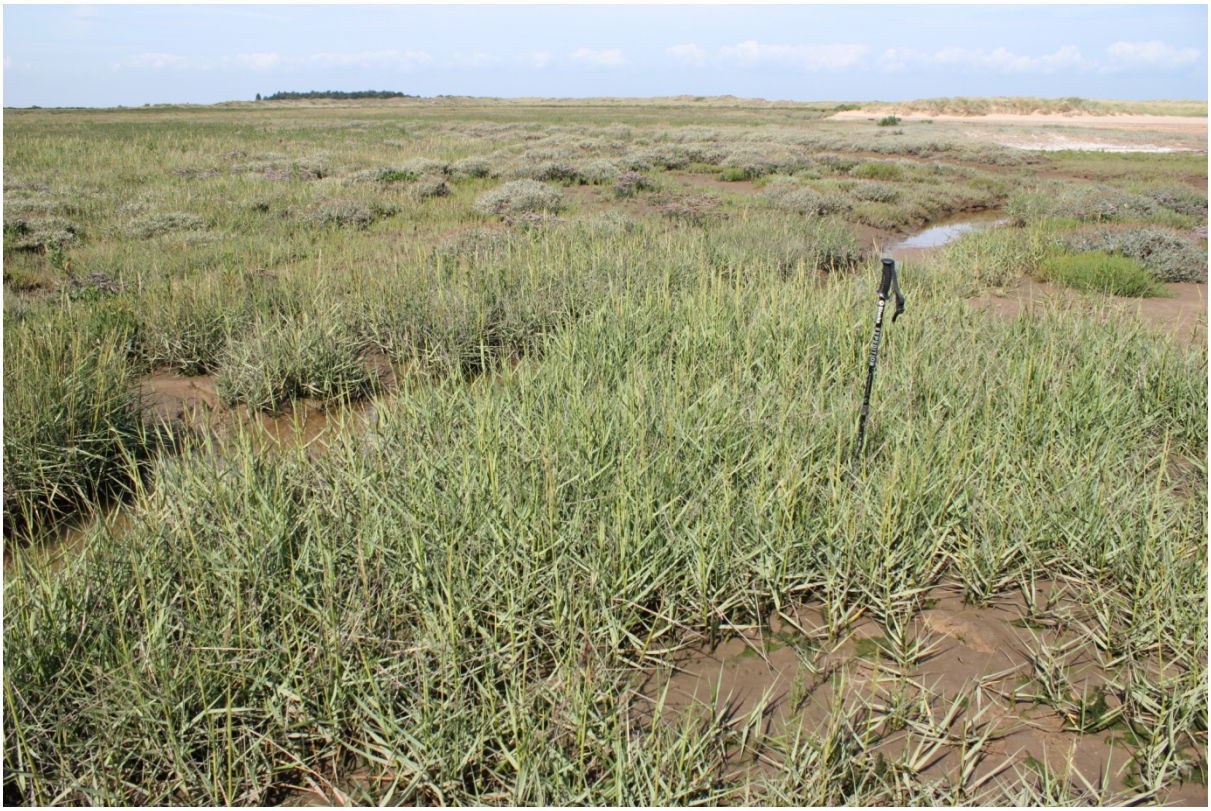

Figure 3-7: Dense areas of Spartina anglica *at the western edge of the marsh*

Some of the lower marsh areas in the south of the site (around the artificial creek) are also being eroded by visitors walking along the lower edge of the earth bank. Heavy compaction and erosion were also observed from footpaths in the transition zone between the sand dunes and saltmarsh. This damage was observed at the northern and eastern borders of the site.

A large brick sluice gate is also present on the eastern border of the site. This sluice is associated with the reed beds and drainage channels landward of the saltmarsh.

3.3 **Thornham**

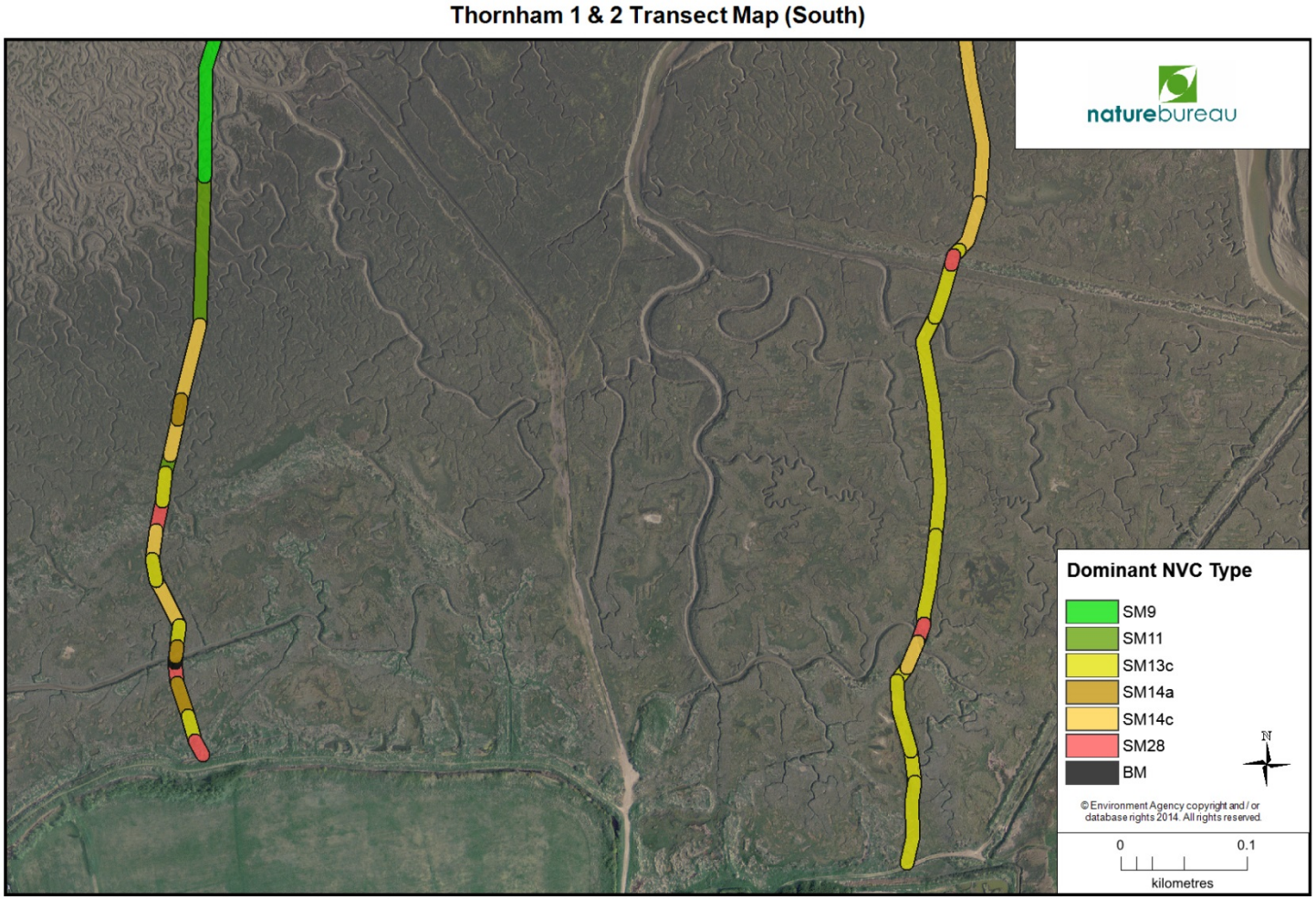

Figure 3-8: Transect Map for Thornham 1 & 2 (South). Full habitat maps are included in the appendices.

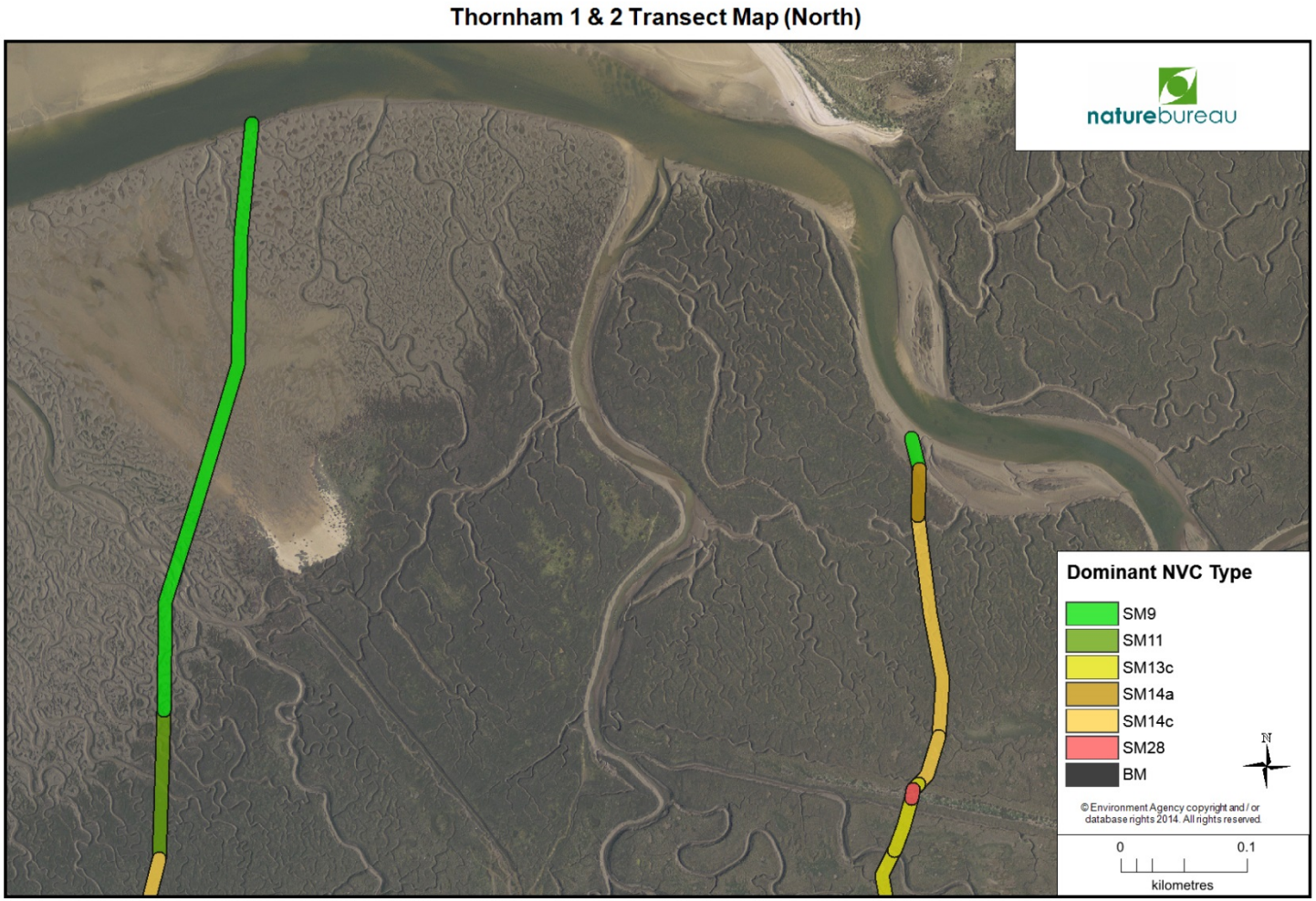

Figure 3-9: Transect Map for Thornham 1 & 2 (North). Full habitat maps are included in the appendices.

The large Thornham saltmarsh is located in Thornham, east of Holm-next-the-Sea. The survey describes the larger area of saltmarsh on the east side of Staithe Lane.

This is an embayment marsh that has developed between the shingle spit at Holme-next-the-Sea and the spit west of Titchwell.

This saltmarsh includes transitions to wetland in the southern borders of the saltmarsh, and transitions to sand dune vegetation in the north-east of the site. Much of the land to the east and south has been drained or excavated. A large earth bank is present on the eastern border of the saltmarsh.

The Annex I saltmarsh habitats present are: *Salicornia* and other annuals colonising mud and sand; Atlantic salt meadows, and Mediterranean and thermo-Atlantic halophilous scrubs.

The main zones include middle marsh with large areas of pioneer marsh also present. The following sub-communities were recorded across the survey transect:

- SM9 (*Suaeda maritima* saltmarsh)
- SM11 (*Aster tripolium* var. *discoideus* salt-marsh community)
- SM13 (*Puccinellia maritima* saltmarsh)
    - SM13c (*Limonium vulgare-Armeria maritima* sub-community)
- SM14 (*Halimione portulacoides* saltmarsh)
    - SM14a (*Halimione portulacoides* dominant sub-community)
    - SM14c (*Puccinellia maritima* sub-community)
- SM16 (*Festuca rubra* saltmarsh)
    - SM16b (*Juncus gerardii* dominated sub-community)
- SM18 (*Juncus maritimus* saltmarsh community)
    - SM18a (*Plantago maritima* sub-community)
- SM25 (*Suaeda vera* drift-line community)
- SM28 (*Elymus repens* saltmarsh)

The pioneer marsh is represented by SM9 that is found at the seaward limits of the saltmarsh (in the north-west of the site). This is one of the largest areas of pioneer marsh surveyed in 2013. *Suaeda maritima* is growing over steep mud deposits which are separated by frequent shallow creeks and pans (see Figure 3-10). Aerial photography and the open species poor formation of the SM9 indicates that the pioneer marsh is expanding seaward onto the mudflats. The previous survey indicated the pioneer marsh to be extensive areas of SM8 (Posford Haskoning Ltd, 2003). Abundant *Salicornia* was present on the site.

It should be noted that harvesting of *Salicornia* was recorded at the time of survey and nearby houses are selling harvested *Salicornia*. Non-commercial hand-picking should have a minimal impact on the overall pioneer marsh.

Figure 3-10: Large area of SM9 expanding out onto the mudflats

Backing the pioneer marsh are Atlantic salt meadows. These consist of a mosaic of SM11 with the rayless form of *Aster tripolium* and SM14a with *Atriplex portulacoides*. The majority of the remaining marsh consists of mosaics of SM13c, SM14a and SM14c; SM14a being more common at the edges of creeks and SM13c found in flatter areas with pans.

Further landward the middle marsh mosaic is replaced with a middle and upper marsh mosaic consisting of SM13c and SM28. SM28 stands are dominated by *Festuca rubra* and *Elytrigia repens*. SM28 is also associated with driftline debris and artificial banks. Small areas of SM18a and occasional patches of *Seriphidium maritimum* are present in the middle of the transect and are also present in this mosaic. SM25 with *Suaeda vera* is present on the border of sand dune transitions in the north of the site. This represents the area of Mediterranean and thermo-Atlantic halophilous scrubs present on the site.

In the south of the site the marsh transitions into grassland around a large earth bank (to the west) and into wetland including *Phragmites australis* and *Typha angustifolia* (to the west).

Large pans are present in the southern areas of the saltmarsh and retain water. Wide and deep creeks (approx. 1-2 m deep) are present across the whole marsh.

Anthropogenic pressures are minimal and are restricted to previous modifications to the saltmarsh including the construction of earth banks at the rear of the marsh and in the upper and middle marsh zones. The rear earthbanks restrict any landward migration of the marsh and connectivity with transitional habitats. The presence of SM28 at the southern edge of the marsh is an indicator of disturbance, but there is a high incidence of species rich SM13c associated with these areas.

3.4 **Brancaster N1C7**

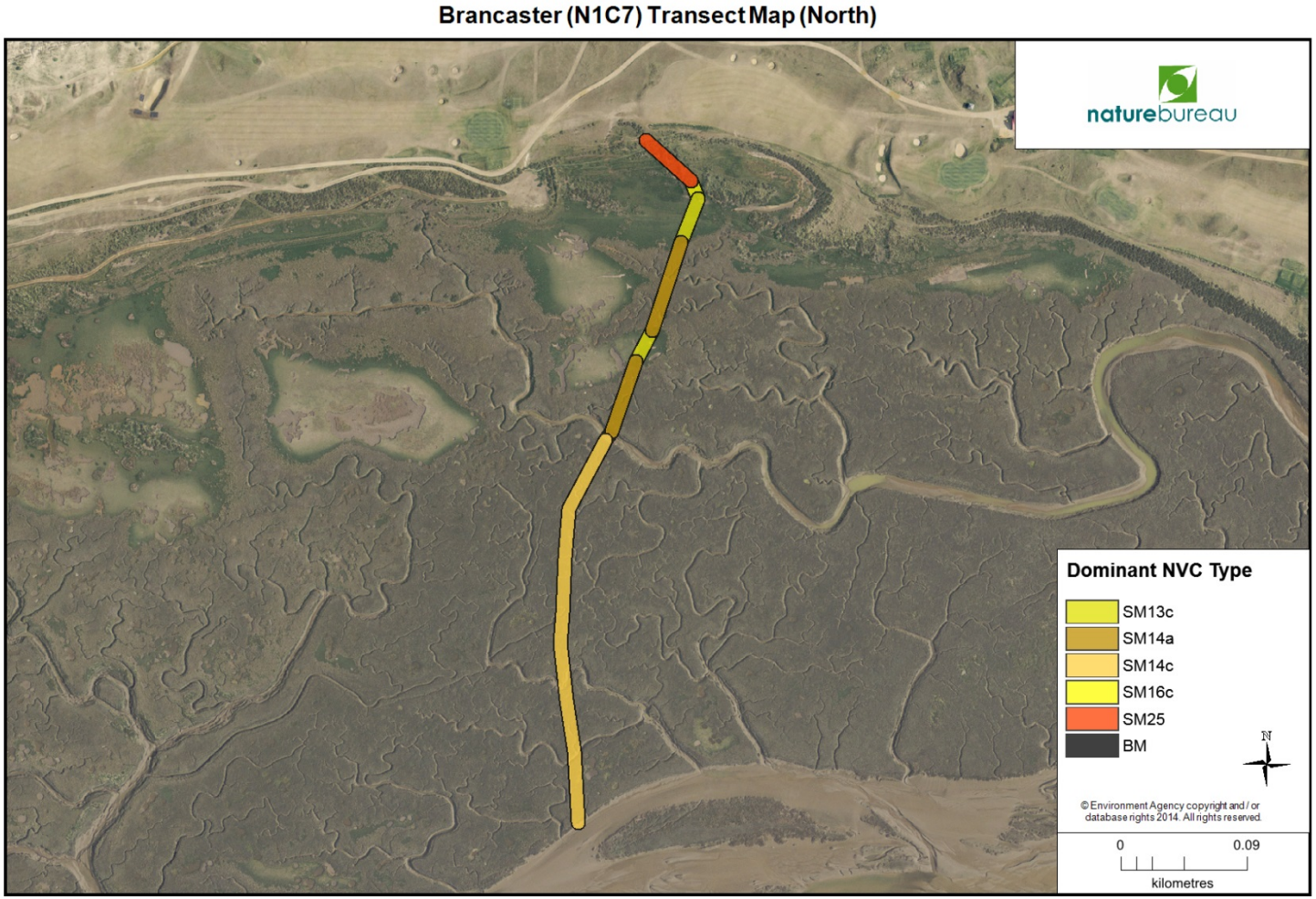

Figure 3-11: Transect Map for Brancaster N1C7 (North). Full habitat maps are included in the appendices.

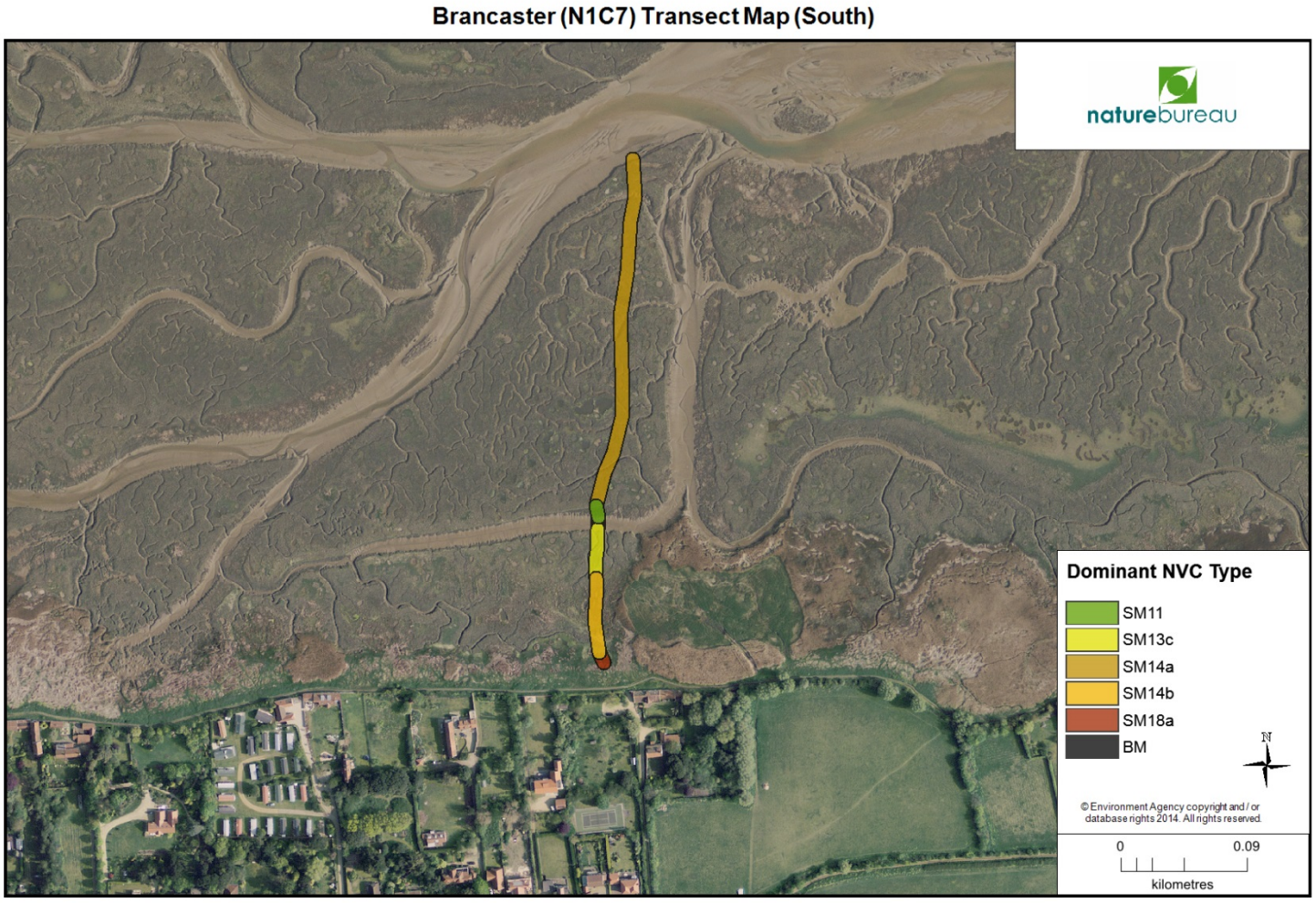

Figure 3-12: Transect Map for Brancaster N1C7 (South). Full habitat maps are included in the appendices.

This survey focussed on the saltmarshes between Brancaster and Brancaster Staithe. This saltmarsh is a back-barrier marsh that is protected by an artificially stabilised sand dune ridge. This work was completed as part of the Royal West Norfolk Golf Club development. The sand dune ridge has now been developed and incorporated into the golf course. Since the survey, the storm surge of December 2013 has substantially reprofiled this sand dune complex.

The saltmarshes on the north side of the transect transition into sand dunes (around the golf course), while the south side of the transect transitions into brackish swamp. Large areas of swamp vegetation are present on the south side of the saltmarsh.

The Annex I saltmarsh habitats present are: Atlantic salt meadows, and Mediterranean and thermo-Atlantic halophilous scrubs.

The saltmarsh vegetation is predominantly lower and middle marsh, with the following sub-communities recorded across the survey transect:

- SM6 (*Spartina anglica* saltmarsh)
- SM11 (*Aster tripolium* var. *discoideus* salt-marsh community)
- SM12a (Rayed *Aster tripolium* on saltmarshes)
- SM13 (*Puccinellia maritima* saltmarsh)
    - SM13c (*Limonium vulgare-Armeria maritima* sub-community)
- SM14 (*Halimione portulacoides* saltmarsh)
    - SM14a (*Halimione portulacoides* dominant sub-community)
    - SM14b (*Juncus maritimus* sub-community)
    - SM14c (*Puccinellia maritima* sub-community)
- SM16 (*Festuca rubra* saltmarsh)
    - SM16c (*Festuca rubra-Glaux maritima* sub-community)
- SM18 (*Juncus maritimus* saltmarsh community)
    - SM18a (*Plantago maritima* sub-community)
- SM25 (*Suaeda vera* drift-line community)

Pioneer marsh is represented by both the rayed and rayless forms of *Aster tripolium* in SM11 and SM12a.

The majority of the saltmarsh is occupied by SM14a, SM14c and SM13c. The presence of SM14b with *Juncus maritimus* is noteworthy, due to the communities' rare occurrence.

Upper marsh vegetation is represented by a narrow belt of SM16c and SM25 on the border of the sand dunes (at the northern end of the transect), while SM18a represents the upper marsh at the southern end of the transect (in the swamp transition zone).

The saltmarsh is dissected by dendritic creeks of a range of sizes and shapes. A large creek divides the transect, while another large creek terminates near the sand dune ridge. The vegetation around the terminus of this creek is occupied by shorter saltmarsh vegetation (SM13c) with *Limonium vulgare*. Pans are frequent across the marsh with many retaining water.

Human impacts were considered to be minimal. No stock grazing was in evidence on the site. *Spartina anglica* was recorded from near the centre of the transect (around Mow Creek) where the species was found in localised but dense monocultures at the edges of creeks and growing in small islands. The other impacts recorded related to the conversion of the sand dune ridge into a golf course and the historic development of the south bank (landward

of the swamp vegetation) into country estate plots. Small areas of turf cuttings were noted beside the reed beds (see Figure 3-13).

Figure 3-13: Evidence of localised turf cutting

An additional area of saltmarsh is present to the east of the transects between the Royal West Norfolk Golf Club and RSPB Titchwell. These areas were created from a breach in the sea defence in 2002. These areas were not surveyed in 2013. However, they have been mapped within the GIS database based on aerial photography interpretation.

3.5 **Burnham and Scolt Head N1B3**

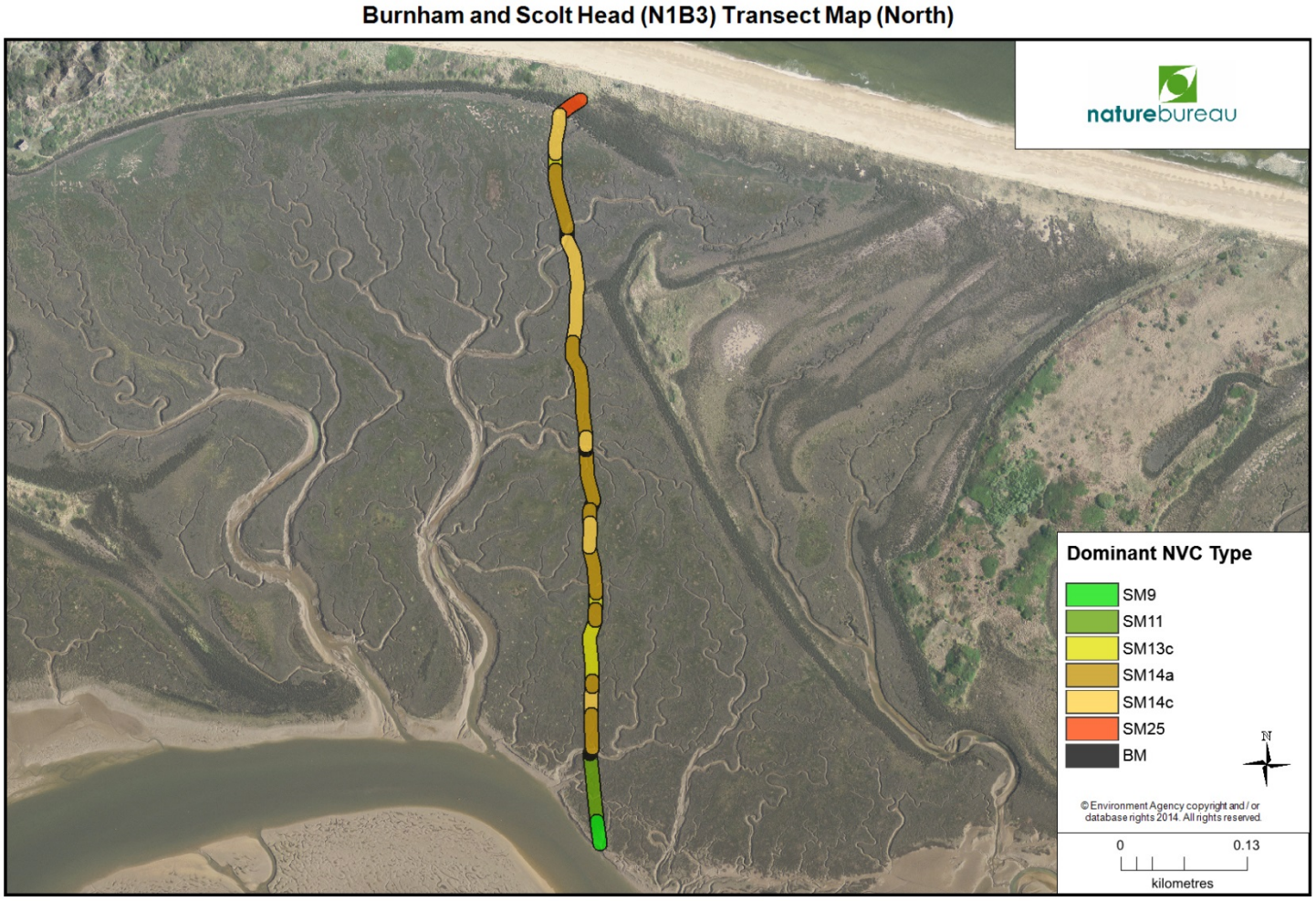

Figure 3-14: Transect Map for Burnham and Scolt Head N1B3 (North). Full habitat maps are included in the appendices.

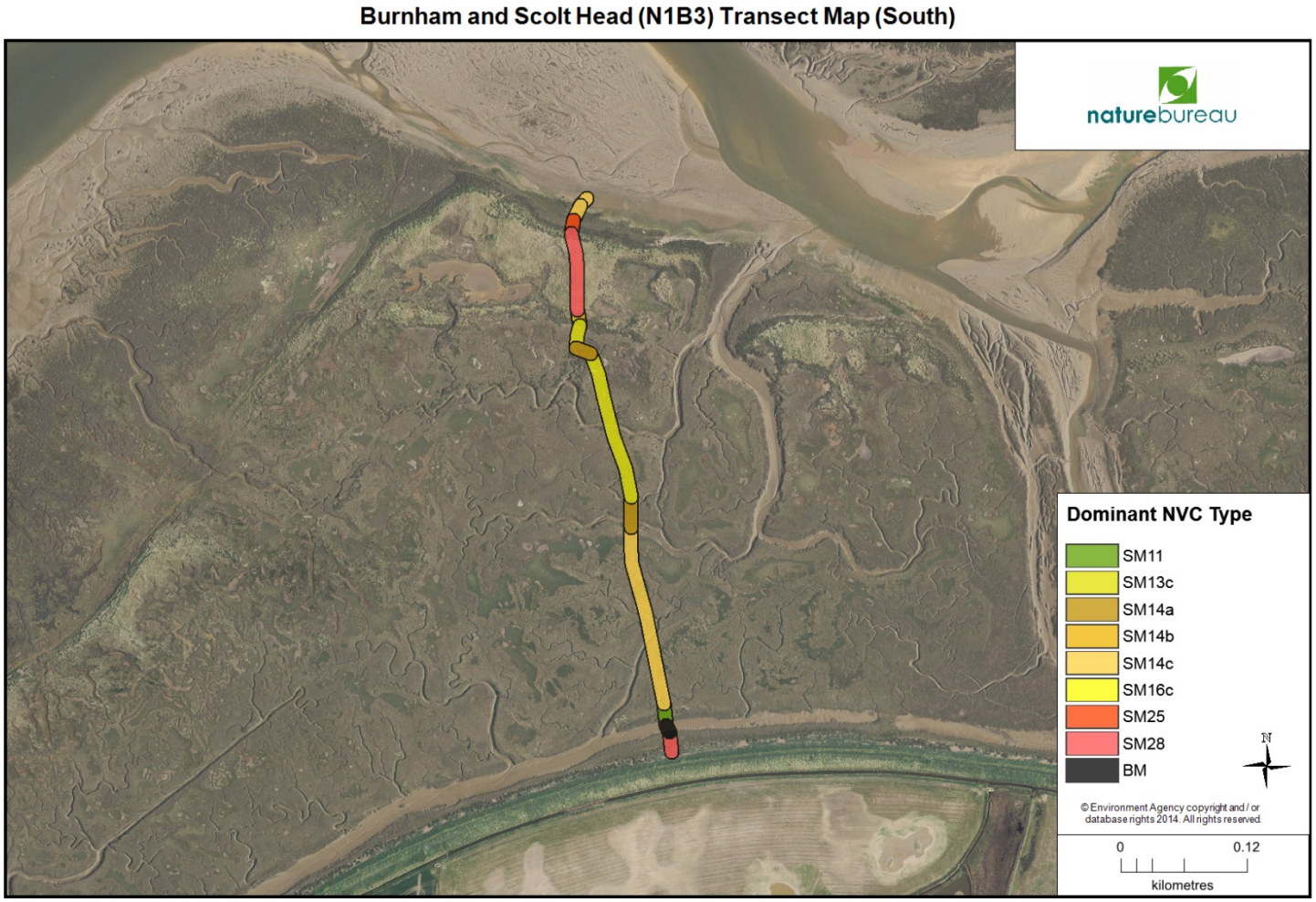

Figure 3-15: Transect Map for Burnham and Scolt Head N1B3 (South). Full habitat maps are included in the appendices.

This survey covered the largest area of saltmarsh in the Brancaster/Burnham complex and is located between Brancaster Staithe and Burnham Overy Staithe. This area is a large estuarine marsh protected by a large shingle and sand dune bar. The wide Norton Creek separates the saltmarsh into two sections. The original transect crossed the creek close to its widest point and the transect has now been re-sited further east across a narrower section of Norton Creek. This creek can only be crossed at low tide.

The saltmarsh includes a transition to sand dune and shingle vegetation at the northern end of the transect. The southern end of the transect terminates at a large earth bank. The habitat landward of the earth bank was drained in the past and is now more terrestrial in nature.

The Annex I saltmarsh habitats present are: *Salicornia* and other annuals colonising mud and sand; Atlantic salt meadows, and Mediterranean and thermo-Atlantic halophilous scrubs.

The saltmarsh vegetation is predominantly middle marsh, with the following sub-communities recorded across the survey transect:

- SM6 (*Spartina anglica* saltmarsh)
- SM8 (Annual *Salicornia* saltmarsh)
- SM9 (*Suaeda maritima* saltmarsh)
- SM11 (*Aster tripolium* var. *discoideus* salt-marsh community)
- SM13 (*Puccinellia maritima* saltmarsh)
    - SM13c (*Limonium vulgare-Armeria maritima* sub-community)
- SM14 (*Halimione portulacoides* saltmarsh)
    - SM14a (*Halimione portulacoides* dominant sub-community)
    - SM14b (*Juncus maritimus* sub-community)
    - SM14c (*Puccinellia maritima* sub-community)
- SM25 (*Suaeda vera* drift-line community)
- SM28 (*Elymus repens* saltmarsh)

Pioneer marsh is present in the form of SM8 and SM9, which are both found at the edges of Norton Creek. SM8 and SM9 are also found on small islands in the middle of Norton Creek. *Spartina anglica* is also present at the edges of the creek in 3 m wide patches. The rayless form of *Aster tripolium* is also present in areas of SM11.

A mosaic of SM14c and SM14a is found across most of the marsh with SM13c found in depressions. Sand and shingle deposits blown across the marsh are occupied by SM25 and SM28. Large areas of SM25 are present at the northern border of the saltmarsh with dense shrubs of *Suaeda vera* (see Figure 3-16).

Figure 3-16: Dense tall areas of SM25 at the border of the sand dunes

Noteworthy species include the abundant populations of *Pelvetia canaliculata* in pans on the north side of Norton Creek. *Spartina anglica* is also associated with these pans. *Pelvetia canaliculata* appeared to be loose from the substrate within the pans, which may indicate the free-living variety of this species *Pelvetia canaliculata* ecad *libera* (see Figure 3-17).

Figure 3-17: Pelvetia canaliculata ecad. libera in pans among Spartina anglica

Approximately 100-500 individual young frogs and smaller number of toads were observed crossing the earth bank at the landward edge of the marsh early in the morning of the survey. The frogs and toads were moving from the landward drained areas onto the saltmarsh. It is likely that fatality rates are high for the frogs and toads crossing the top of the earth bank (killed by human trampling and sun exposure etc).

There are frequent dendritic creeks across the marsh. Deep and wide creeks are found frequently with Norton Creek being exceptionally large. Narrower creeks that are approximately 1 m deep are also found regularly across the marsh.

Pans are occasional across and are often small and vegetated on the north side of Norton Creek. Larger vegetated pans are found on the south side of Norton creek where they are associated with SM13c.

Human impacts are minimal apart from the historic drainage and walling of the neighbouring land. There is a large brick drainage outlet linked to the drained land beside the saltmarsh.

There is evidence of saltmarsh erosion in the middle of Norton Creek with bare sediment stepping present (roughly 0.5 m high; see Figure 3-18).

Figure 3-18: Erosion of the saltmarsh sediment in Norton Creek

Rabbit grazing is also present near the sand dune ridge at the northern limits of the saltmarsh. *Spartina anglica'*s abundance also requires monitoring in areas of SM8 and SM9 and where the species is growing beside *Pelvetia canaliculata* in pans.

The previous report notes nationally scarce plants *S. vera* , *F. laevis , L. bellidifolium* , and *L. binervosum* as being present in this area of Scolt Head, but it should be noted that the transect was relocated further west.

3.6 **Burnham N1A1**

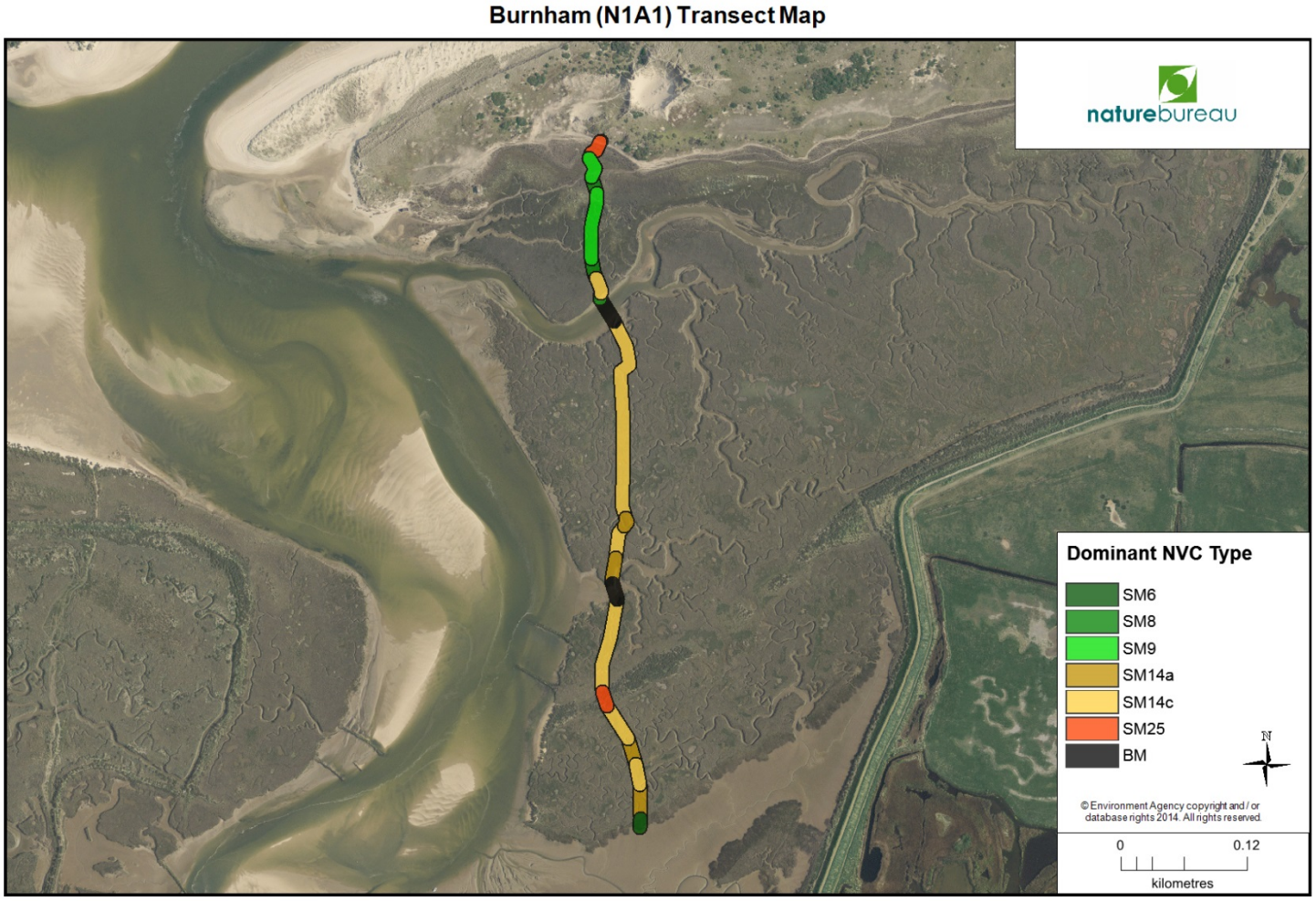

Figure 3-19Transect Map for Burnham N1A. Full habitat maps are included in the appendices.

This survey focussed on the saltmarshes in the east of the Brancaster/Burnham marsh complex. The transect is located north-east of Burnham Overy Staithe and is accessible from the footpath on top of the earth bank.

This is an embayment marsh sheltered by a sand dune spit.

The vegetation transitions to shingle and sand dune at the northern end of the transect, while the west edge of the marsh changes to driftline vegetation associated with the earth banks. The land eastward of the earth banks was drained in the past.

The Annex I saltmarsh habitats present are: *Salicornia* and other annuals colonising mud and sand; Atlantic salt meadows, and Mediterranean and thermo-Atlantic halophilous scrubs.

The saltmarsh vegetation is predominantly middle marsh, with the following sub-communities recorded across the survey transect:

- SM6 (*Spartina anglica* saltmarsh)
- SM8 (Annual *Salicornia* saltmarsh)
- SM9 (*Suaeda maritima* saltmarsh)
- SM13 (*Puccinellia maritima* saltmarsh)
    - SM13c (*Limonium vulgare-Armeria maritima* sub-community)
- SM14 (*Halimione portulacoides* saltmarsh)
    - SM14a (*Halimione portulacoides* dominant sub-community)
    - SM14c (*Puccinellia maritima* sub-community)
- SM25 (*Suaeda vera* drift-line community)

Pioneer saltmarsh is present in the form of SM8 and SM9. Large areas of SM9 are found at the northern end of the transect across sand deposits (see Figure 3-20). Embryo pans are also associated with these areas of SM9. These pans are shallow and do not retain water, but green algae was present at the centre of the pans.

Figure 3-20: Diverse SM9 at the northern edge of the transect with dried out embryo pans

Smaller areas of SM8 were also present in pans and at the edges of creeks (see Figure 3-21).

Figure 3-21: SM8 at the edges of creeks

Spartina anglica is present over mud deposits at the southern edge of the marsh. *Spartina anglica* forms a dense belt (approx. 3m wide) in this area (see Figure 3-22).

Figure 3-22: Dense SM6 at the southern edge of the marsh

The rest of the marsh is a mosaic of SM13c and SM14a and SM14c. SM14a is more commonly associated with fine dendritic creeks. Raised sediments and drift material were occupied by SM25 with *Suaeda vera* and *Elymus repens.* A noteworthy version of SM25 is present at the northern end of the transect where *Suaeda maritima* acts as an understory to *Suaeda vera* (see Figure 3-23).

Figure 3-23: SM25 with and understorey of SM9

Noteworthy species recorded include *Limonium binervosum* on the sand dunes at the northern end of the transect. *Seriphidium maritima* was also present near the centre of the survey transect.

Dendritic creeks are frequent and shallow across this saltmarsh (<0.5 m) and filled with sediment. Deeper and wider creeks are also present, the largest being on the northern end of the transect.

Large pans are present in association with SM13c which often retain water. There was evidence of worm activity in many of the pans.

Human impacts are minimal apart from the historic drainage and walling of the neighbouring land. There is a narrow belt of footpath erosion through the large area of SM9 at the northern limit of the marsh. SM9 pioneer marsh is highly sensitive to trampling and this erosion should be monitored.

The presence of stone wave breaks along the edges of the River Burn estuary mouth were also noted. There was clear evidence of erosion in these areas with three stages of erosion visible through the sediment (see Figure 3-24). It is unclear whether the tidal breaks were installed to prevent this erosion or whether wave breaks are causing the erosion. The mud deposits are deep and unstable in this area.

Figure 3-24: Heavy erosion of the creek edges near Burnham

3.7 **Holkham**

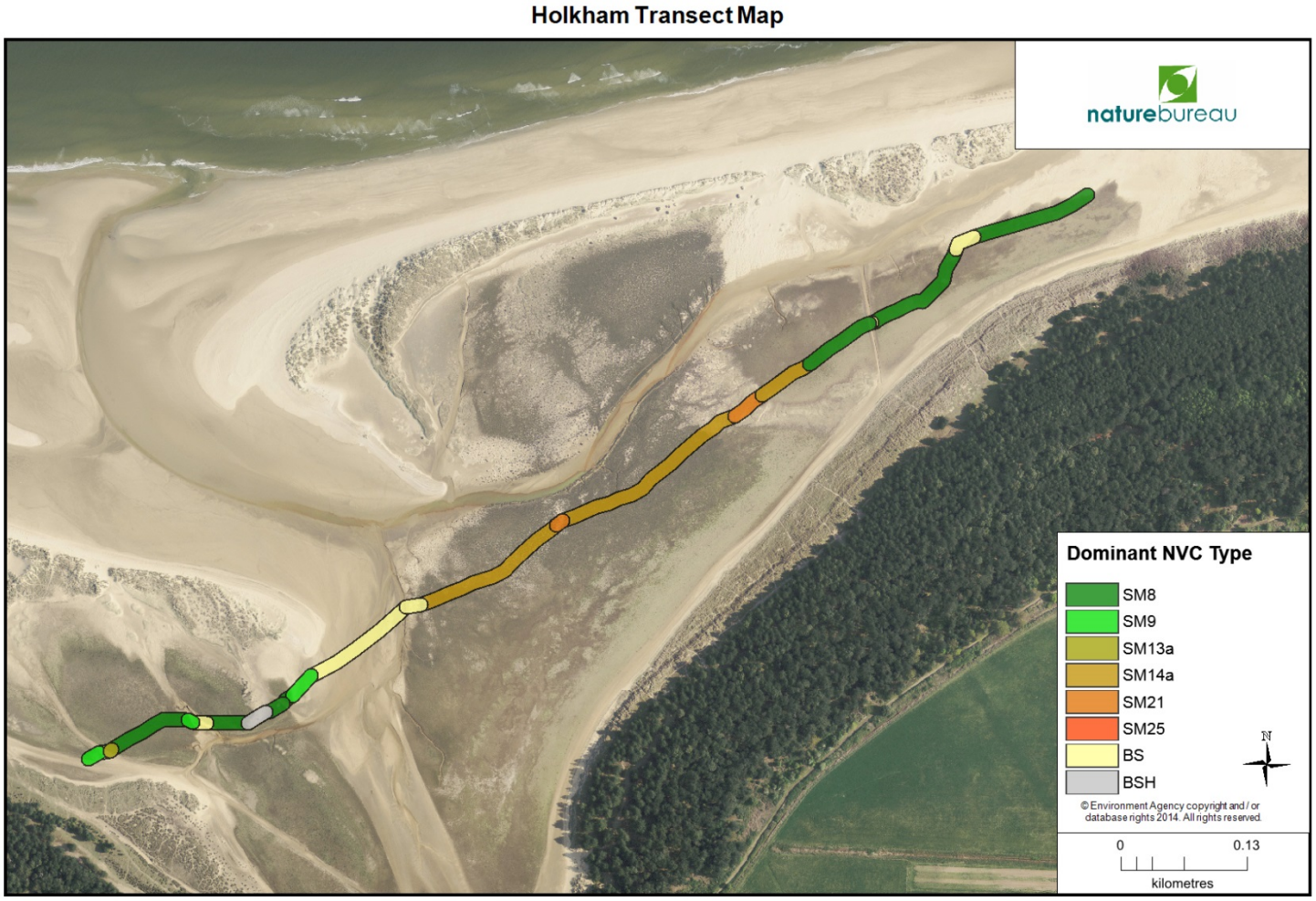

Figure 3-25: Transect Map for Holkham. Full habitat maps are included in the appendices.

This saltmarsh is located on the privately owned beach at Holkham. The sand dunes are bordered by a forestry plantation and drained land.

This saltmarsh is a back barrier marsh in the early stages of development. It is protected by a sand dune bar and spit and saltmarsh vegetation is developing within a small bay.

The saltmarsh transitions to sand dune vegetation in the east and west.

The Annex I saltmarsh habitats present are: *Salicornia* and other annuals colonising mud and sand; Atlantic salt meadows, and Mediterranean and thermo-Atlantic halophilous scrubs.

This saltmarsh is predominantly pioneer and middle marsh. The pioneer marsh in the west of the site was previously mapped as low-mid marsh (Posfords, 2003). This area is being heavily eroded by trampling. The following sub-communities were recorded across the survey transect:

- SM8 (Annual *Salicornia* saltmarsh)
- SM9 (*Suaeda maritima* saltmarsh)
- SM13 (*Puccinellia maritima* saltmarsh)
    - SM13a (*Puccinellia maritima* dominated sub-community)
- SM14 (*Halimione portulacoides* saltmarsh)
    - SM14a (*Halimione portulacoides* dominant sub-community)
- SM21 (*Suaeda vera-Limonium binervosum* salt-marsh)

Pioneer marsh is present in the form of SM8 and SM9. Both are present across most of the site. Areas of SM8 in the west of the site are heavily trampled by horses and members of the public.

Low lying and species poor areas of SM13a and SM14a have developed on the eastern side of the site where there is less trampling.

SM21 is noteworthy on this site, which includes *Suaeda vera* and *Limonium binervosum* with few other associates. *Limonium binervosum* also occurs as single species stands near the centre of the saltmarsh and over wind-blown sand on the eastern side of the saltmarsh.

There are only a small number of creeks present on the site and each is very shallow. Some embryo pans are present but these are also infrequent and more strongly associated with the eastern side of the site. Pans and creeks on back-barrier marshes are often observed to be infrequent and shallow, particularly in the early stages of development.

This saltmarsh is suffering the most significant anthropogenic pressures of the North Norfolk SAC. The high volume of visitors that walk from Holkham drive and out onto the sand dunes is causing the pioneer marsh zone to erode (see Figure 3-26) and has caused a net loss in extent of pioneer marsh. The middle of the bay is now completely lacking pioneer marsh due to trampling. Horse riding and vehicles are also causing damage to areas of SM8 (see Figure 3-27and Figure 3-28). Temporary fencing would reduce the damage.

Figure 3-26: Tourists crossing the marsh. Erosion of the pioneer marsh is evident

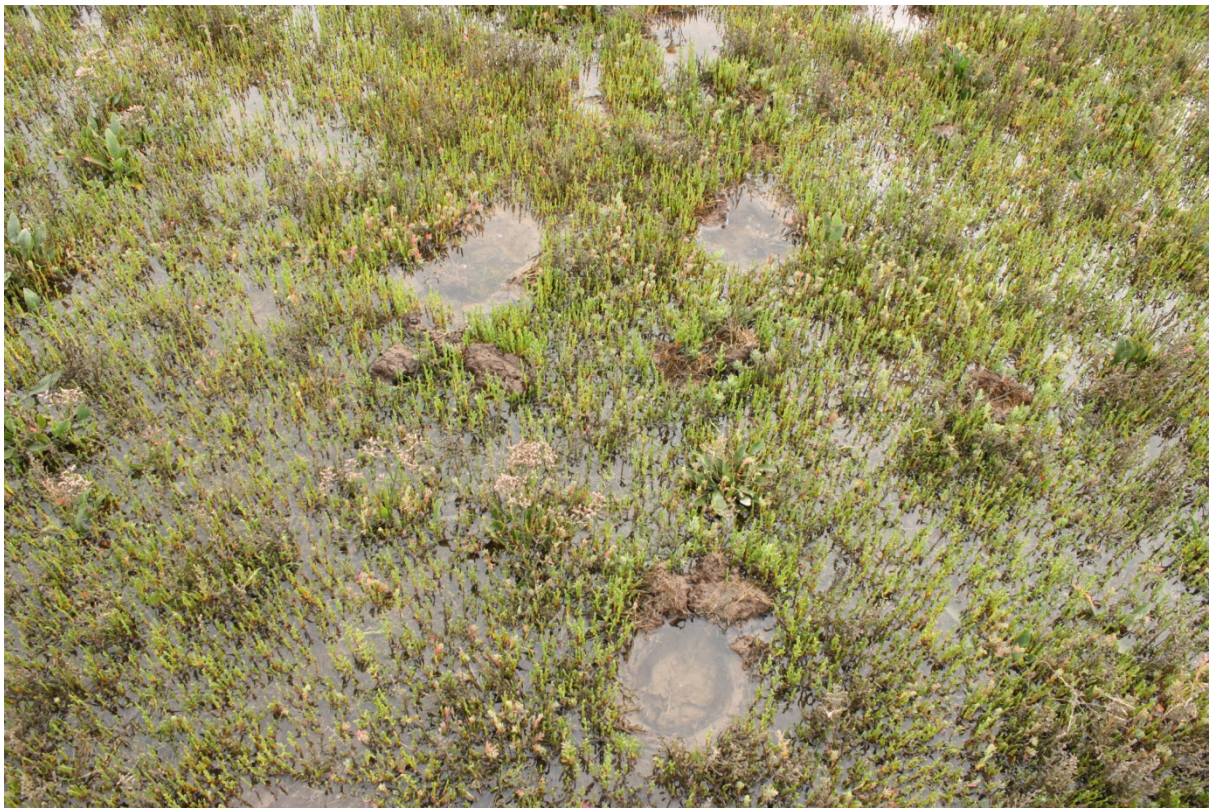

Figure 3-27: Hoof marks through SM8 pioneer marsh

Figure 3-28: Tyre damage through SM8 pioneer marsh

3.8 **Warham ND2D**

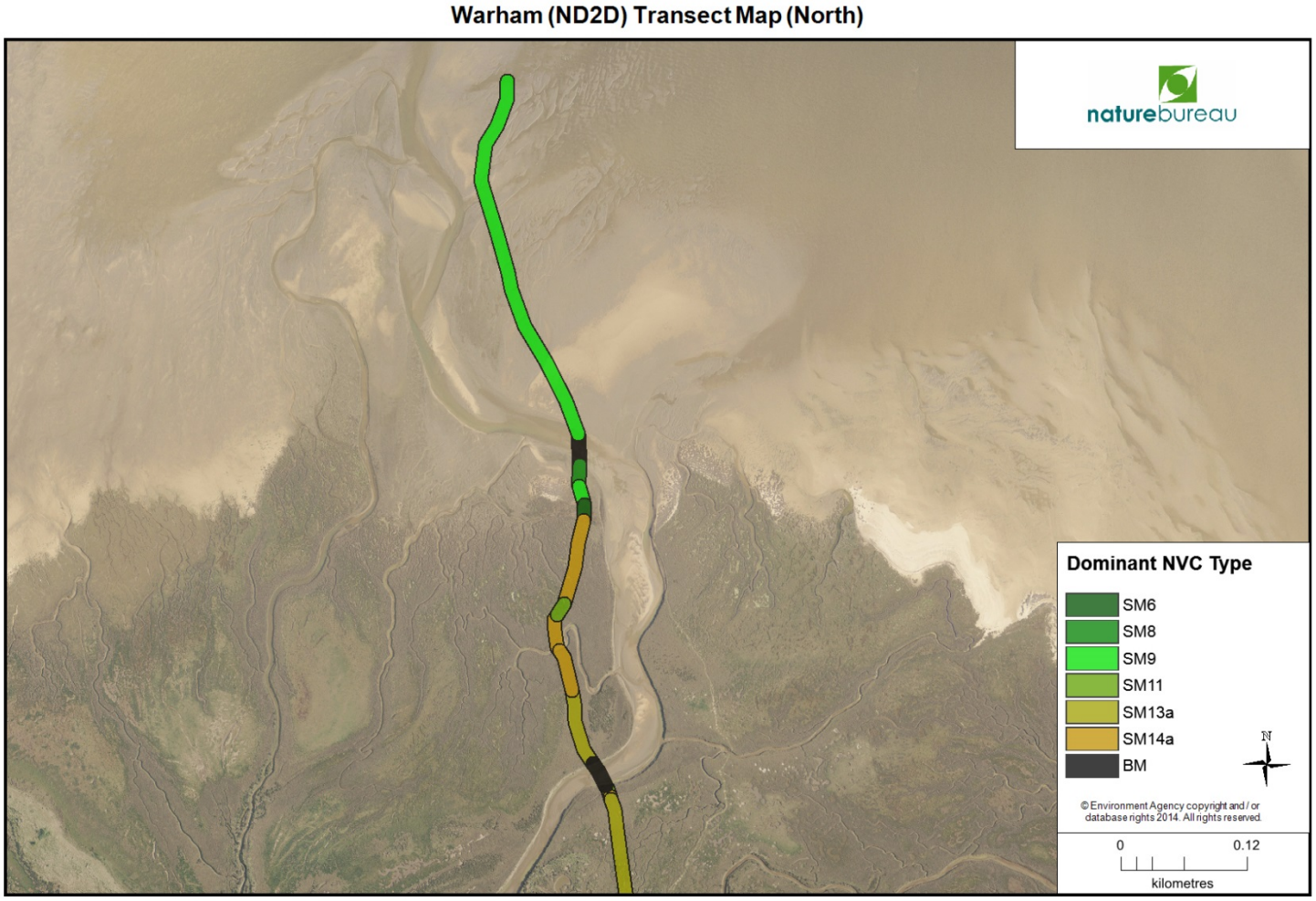

Figure 3-29: Transect Map for Warham ND2D (North). Full habitat maps are included in the appendices.

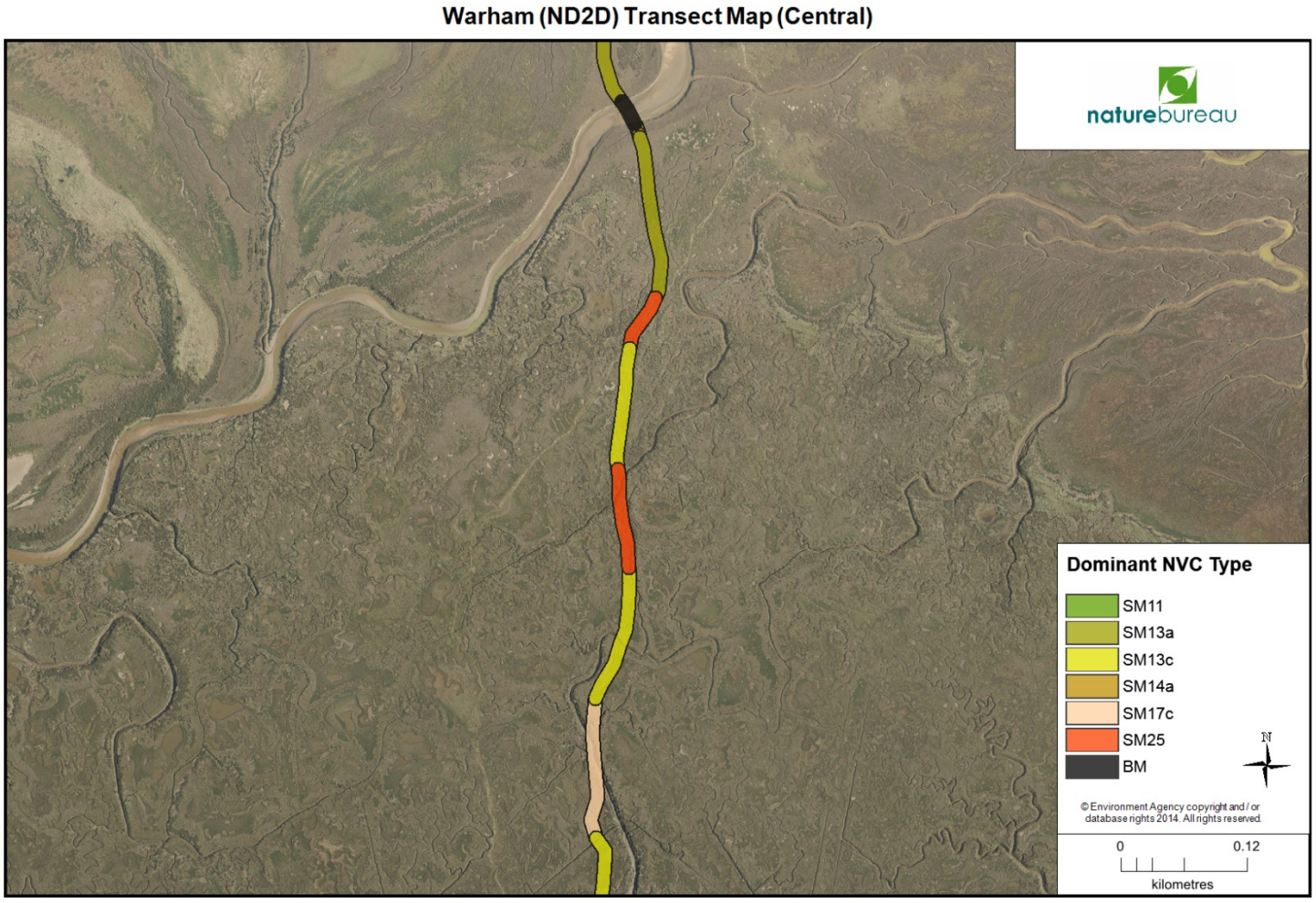

Figure 3-30: Transect Map for Warham ND2D (Central). Full habitat maps are included in the appendices.

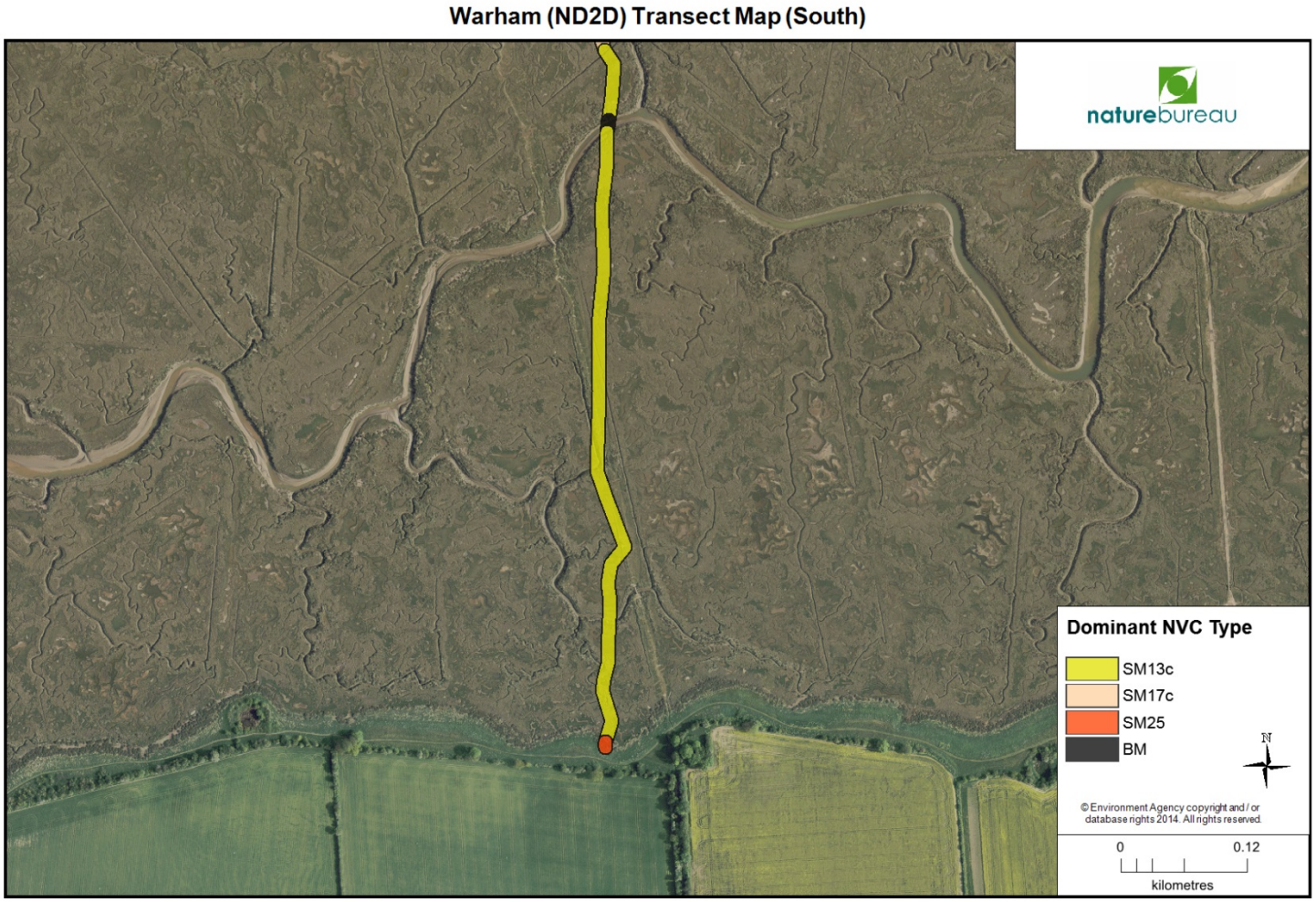

Figure 3-31: Transect Map for Warham ND2D (South). Full habitat maps are included in the appendices.

This survey represents an assessment of one section of the large marsh complex found between Wells-next-the-Sea and Blakeney. Specifically this section details the transect walked at Warham (located between Wells-next-the-Sea and Stiffkey).

The entire area is a back-barrier marsh protected by large sand deposits. The saltmarsh changes to mesotrophic grassland landward of the main saltmarsh.

The Annex I saltmarsh habitats present are: *Salicornia* and other annuals colonising mud and sand; Atlantic salt meadows, and Mediterranean and thermo-Atlantic halophilous scrubs.

Large areas of pioneer, lower and middle marsh are present across this area of saltmarsh. The following sub-communities were recorded across the survey transect:

- SM6 (*Spartina anglica* saltmarsh)
- SM8 (Annual *Salicornia* saltmarsh)
- SM9 (*Suaeda maritima* saltmarsh)
- SM11 (*Aster tripolium* var. *discoideus* salt-marsh community)
- SM13 (*Puccinellia maritima* saltmarsh)
    - SM13a (*Puccinellia maritima* dominated sub-community)
    - SM13c (*Limonium vulgare-Armeria maritima* sub-community)
- SM14 (*Halimione portulacoides* saltmarsh)
    - SM14a (*Halimione portulacoides* dominant sub-community)
    - SM14c (*Puccinellia maritima* sub-community)
- SM17 (*Artemisia maritima* saltmarsh)
- SM25 (*Suaeda vera* drift-line community)

Pioneer marsh is represented by large areas of SM9 at the seaward edge of the marsh. *Suaeda maritima* is the only species present across much of these areas (see Figure 3-32). *Suaeda maritima* and *Salicornia europaea* agg. form a mosaic behind the large areas of SM9 (mapped as SM8 and SM9).

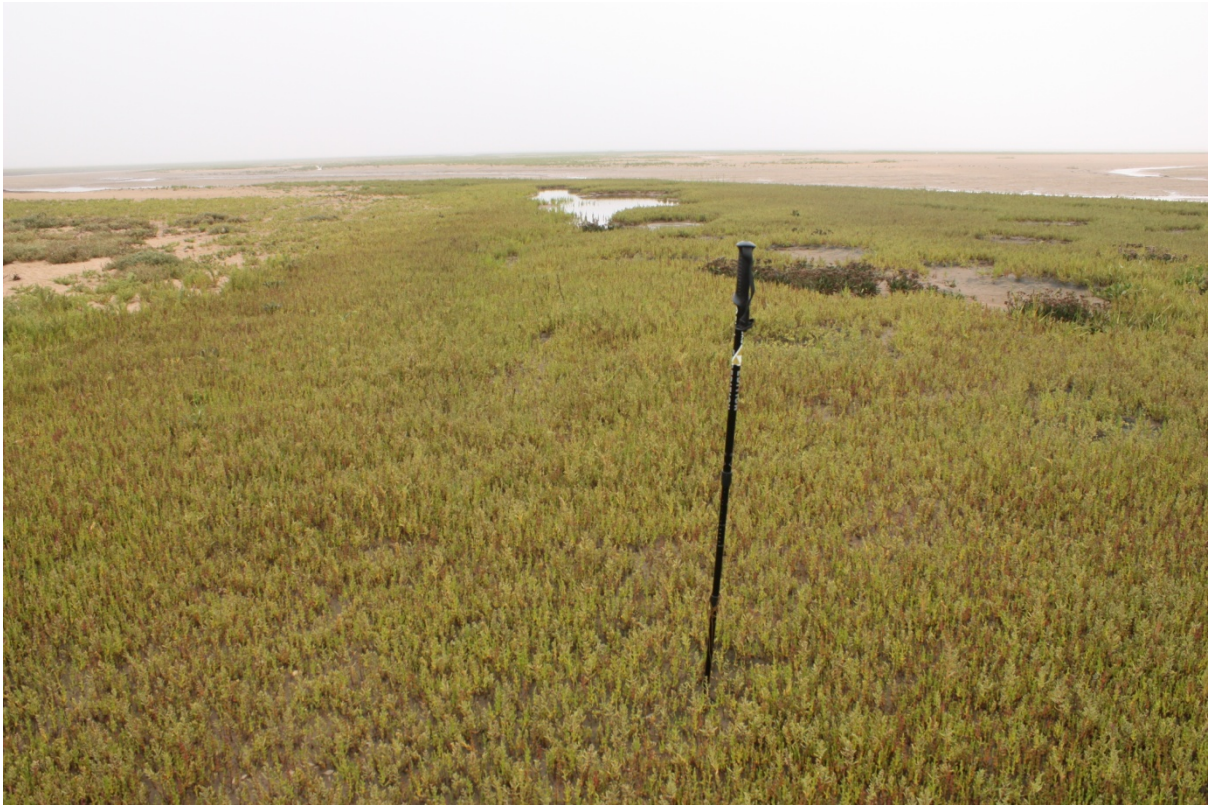

Figure 3-32: Large areas of SM9 with embryo pans

The lower marsh zone is occupied by SM6 with *Spartina anglica*, SM11 with the rayless form of *Aster tripolium* and SM13a with *Puccinellia maritima*. Dense areas of *Spartina anglica* are present across this zone (see Figure 3-33).

Figure 3-33: Dense areas of SM6

The middle marsh forms a repeating mosaic of SM13c, SM14c, SM17 and SM25. SM25 is found at the edges of larger creeks and across raised areas. Unlike other areas of Blakeney, SM25 can be found regularly across the rear of the marsh. Like on many of the North Norfolk SAC saltmarshes, SM13c is found in depressions and is strongly associated with larger pans. SM14c is found at the height stage between SM13c and SM25. SM13c and SM14c are gradually replaced by increasing SM25 and SM17 further landward.

Dendritic creeks are present across the whole marsh in a range of sizes and depths. A number of deeper and wider creeks with thick mud deposits are also present. Large pans retaining water are strongly associated with areas of SM13c and invertebrates were noted in these pans. A small number of pans within SM13c areas had a skin of foul water across the top. Embryo pans are also present in areas of SM11 and SM9.

Human impacts on this section of saltmarsh relate to soil compaction and erosion on the footpath across the marsh (which is localised). The dense areas of *Spartina anglica* require monitoring to ensure they are not expanding.

The large areas of SM9 at the seaward edge of the marsh are colonising the sand deposits at the front of the marsh and show signs of significant expansion seaward.

3.9 **Stiffkey N2D4 & N2D6**

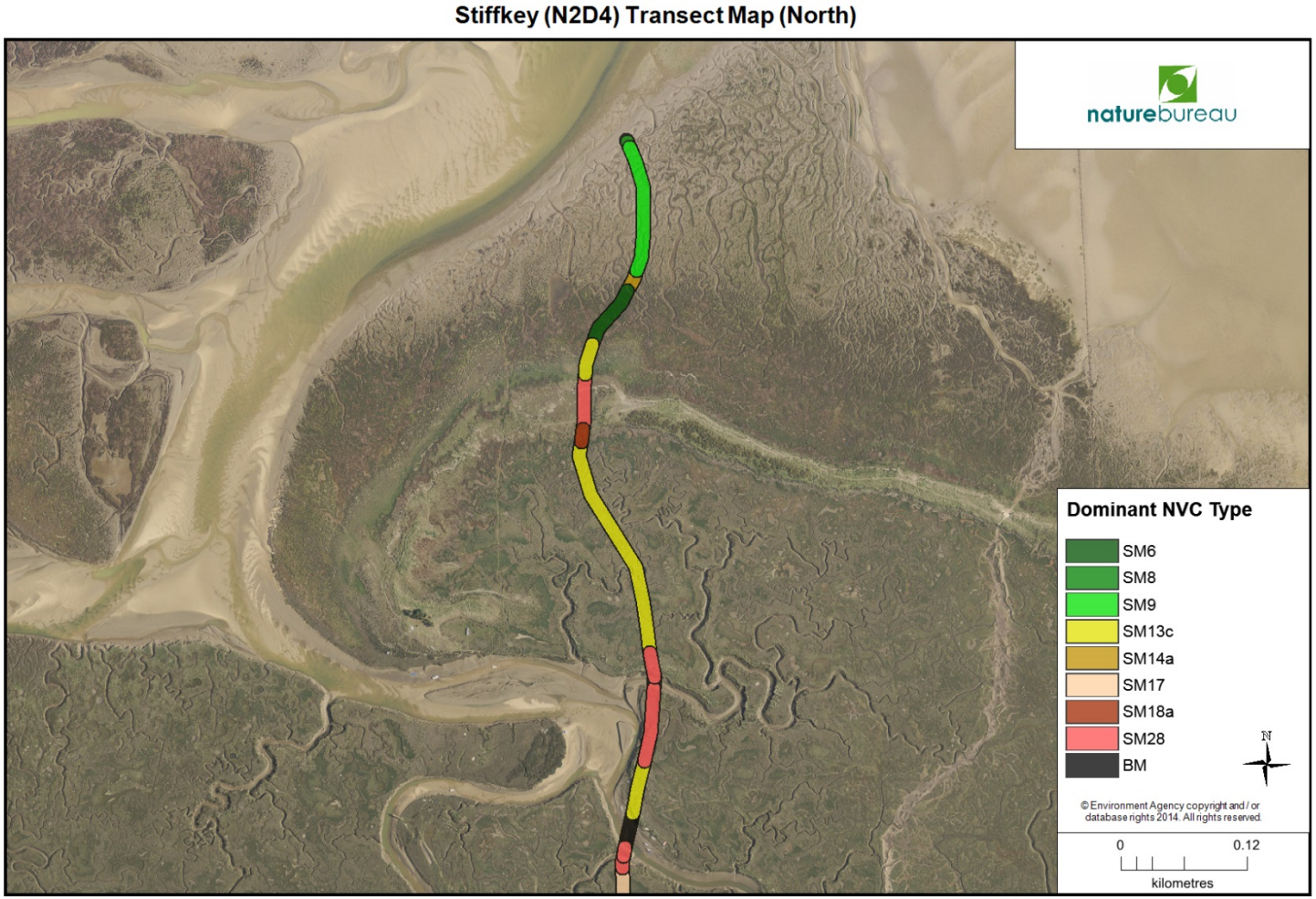

Figure 3-34: Transect Map for Stiffkey N2D4 (North). Full habitat maps are included in the appendices.

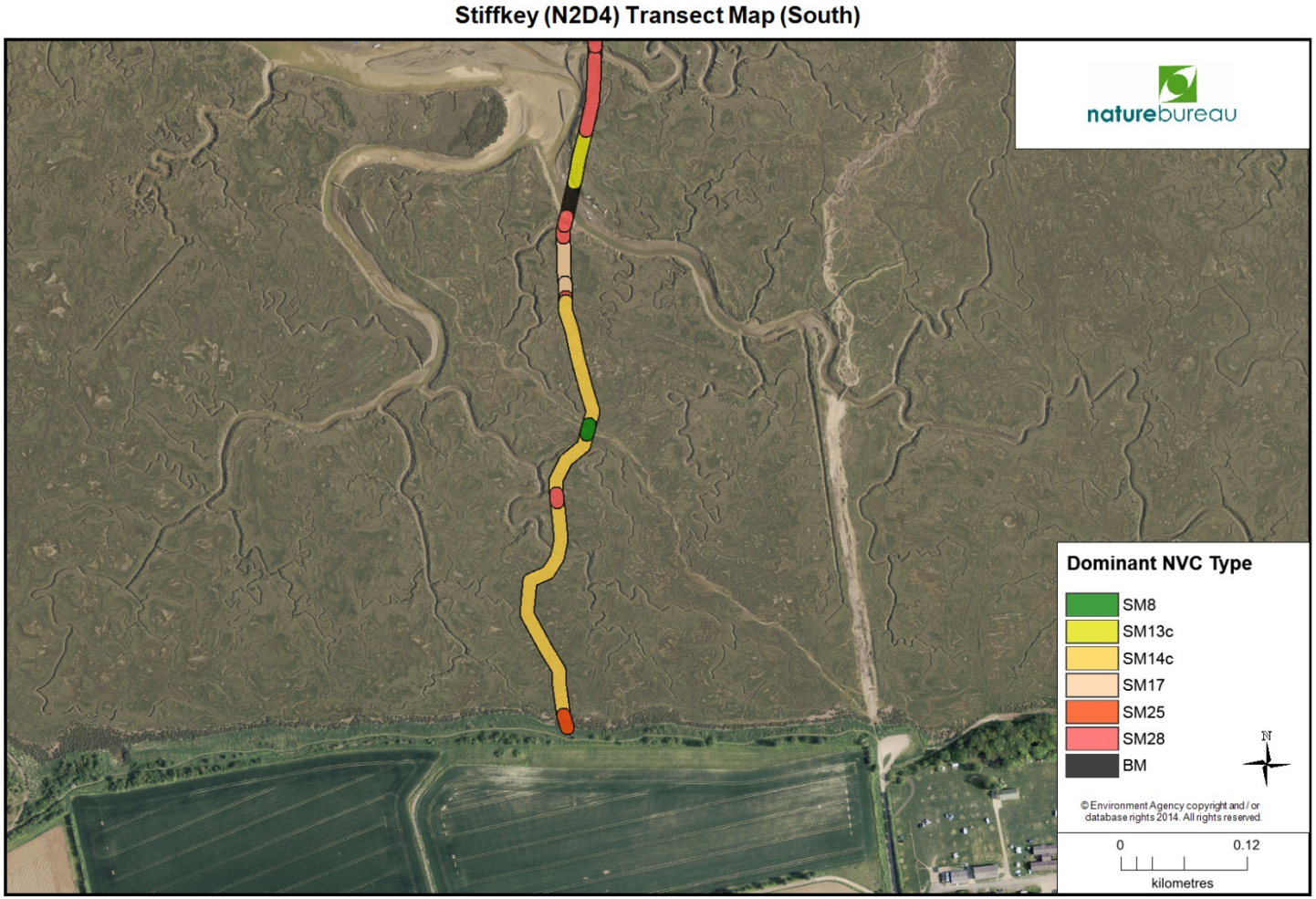

Figure 3-35: Transect Map for Stiffkey N2D4 (South). Full habitat maps are included in the appendices.

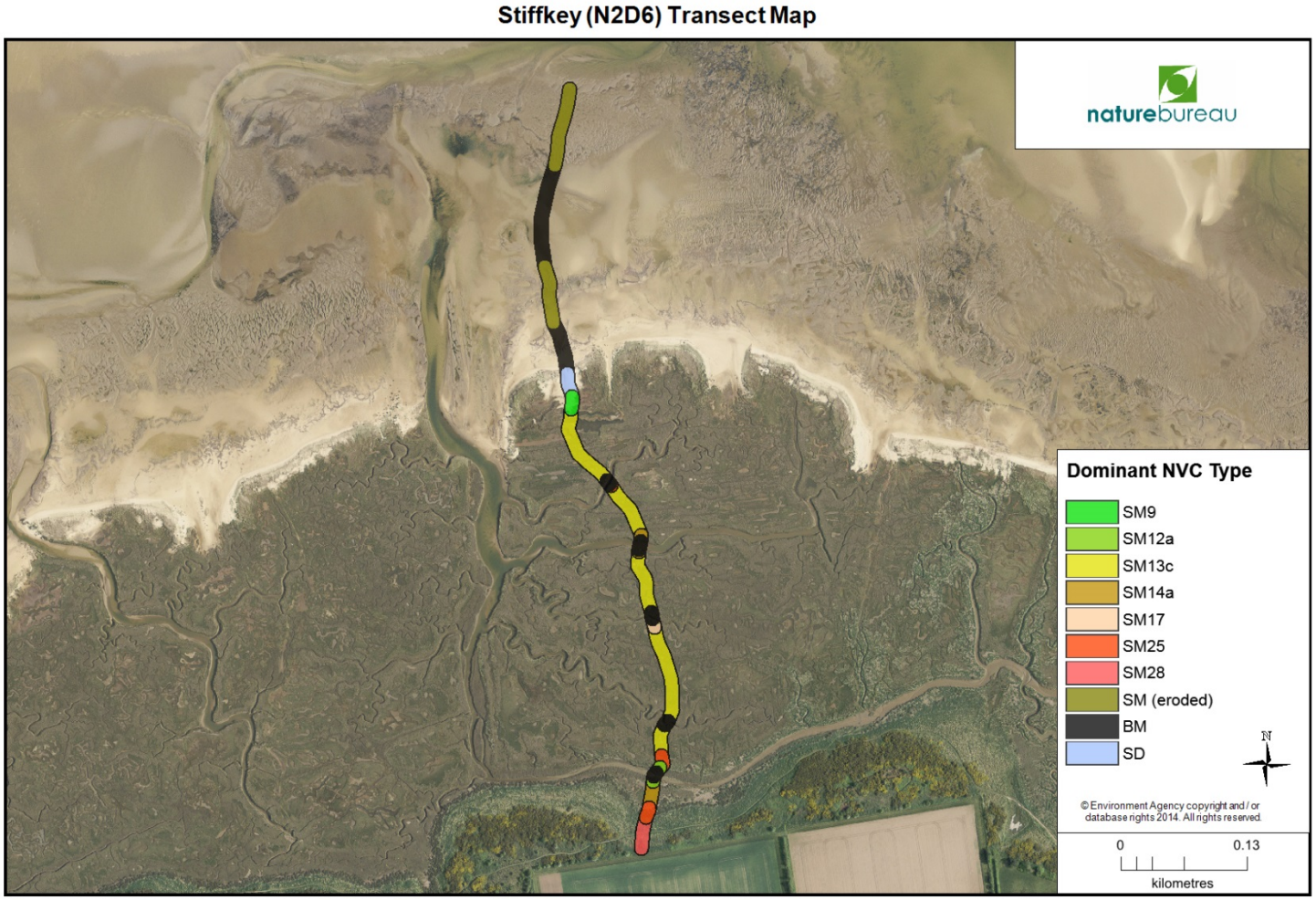

Figure 3-36: Transect Map for Stiffkey N2D6. Full habitat maps are included in the appendices.

This survey represents an assessment of one section of the large marsh complex found between Wells-next-the-Sea and Blakeney and details the two transects walked east and west of Stiffkey.

The entire area is a back-barrier marsh protected by large sand deposits.

The saltmarsh changes to open sand and sand dune vegetation seaward and mesotrophic grassland is present landward of the main saltmarsh.

The Annex I saltmarsh habitats present are: *Salicornia* and other annuals colonising mud and sand; Atlantic salt meadows, and Mediterranean and thermo-Atlantic halophilous scrubs.

The main zone present is middle marsh with large areas of pioneer marsh also present. In addition, smaller areas of upper marsh are present near the landward limits of the saltmarsh. The following sub-communities were recorded across the survey transect:

- SM6 (*Spartina anglica* saltmarsh)
- SM8 (Annual *Salicornia* saltmarsh)
- SM9 (*Suaeda maritima* saltmarsh)
- SM12a (Rayed *Aster tripolium* on saltmarshes)
- SM13 (*Puccinellia maritima* saltmarsh)
    - SM13c (*Limonium vulgare-Armeria maritima* sub-community)
- SM14 (*Halimione portulacoides* saltmarsh)
    - SM14a (*Halimione portulacoides* dominant sub-community)
    - SM14c (*Puccinellia maritima* sub-community)
- SM17 (*Artemisia maritima* saltmarsh)
- SM18 (*Juncus maritimus* saltmarsh community)
    - SM18a (*Plantago maritima* sub-community)
- SM25 (*Suaeda vera* drift-line community)
- SM28 (*Elymus repens* saltmarsh)

Pioneer marsh is present in the form of SM8, SM9 and SM12a. *Suaeda maritima* is found extensively at the seaward edge of the marsh where it is often the only species present (see Figure 3-37). *Spartina anglica* and *Salicornia europaea* agg. are also present in low abundances in these areas. A narrow belt of SM8 is found at the front of the larger areas of SM9.

Figure 3-37: Large areas of SM9 with embryo pans

A mosaic of *Spartina anglica* with *Atriplex portulacoides* is present landward of the areas of SM9 (mapped as SM6 and SM13c).

Of note is the presence of SM18a on the ridge of a blown sand drift line with *Juncus maritimus* being the most abundant species present (see Figure 3-38).

Figure 3-38: SM18a beside a sand dune transitional area

The majority of the remaining marsh is occupied by a mosaic of SM14c and SM13c. SM13c is the more diverse of the two communities and is found on lower ground.

Upper marsh communities develop further landward. The rare SM17 is found in a mosaic with SM13c near the centre of the saltmarsh with *Seriphidium maritimum* being a key component. The main sections of upper marsh are represented by SM28, dominated by *Elytrigia repens*. Belts of SM25 with *Suaeda vera* are also present on sand dune ridges and at the landward limit of the saltmarsh.

Dendritic creeks are present across the whole marsh in a range of sizes and depths. A number of deeper and wider creeks with thick mud deposits are also present. Large pans retaining water are strongly associated with areas of SM13c. Smaller pans are also associated with areas of SM9. Some pans on these marshes were noted to not be retaining water.

Human impacts are relatively minimal but there is considerable soil compaction and erosion across a winding footpath from Greenway through the marshes and out onto the sand dunes. Bridges and weirs are associated with this footpath and although the saltmarsh vegetation is damaged by the footpath, the impact is localised.

An interesting feature observed was the presence of narrow gauge railway trucks in pans and creeks (see Figure 3-39 and Figure 3-40). One of the trucks was buried deep into the saltmarsh sediment. The railway wagons are not associated with the nearby Wells Walsingham Light Railway (the gauge is different) and are likely a relic of historic military training at Blakeney (WWI or WWII).

Figure 3-39: A narrow gauge railway truck buried in the marsh sediment

Figure 3-40: Close-up of the buried railway truck

Spartina anglica is also present on the landward edge of the pioneer zone and does not appear to be expanding.

There has been significant losses of saltmarsh area at the seaward edge of Stiffkey due to lateral erosion (see Figure 3-41). Based on aerial photography interpretation the area of eroded saltmarsh covers approximately 33ha. The area of eroded marsh has been mapped onto Figure 3-36.

Figure 3-41: Significant losses in extent of the saltmarsh due to erosion

3.10 **Morston N2C3 & N2C4**

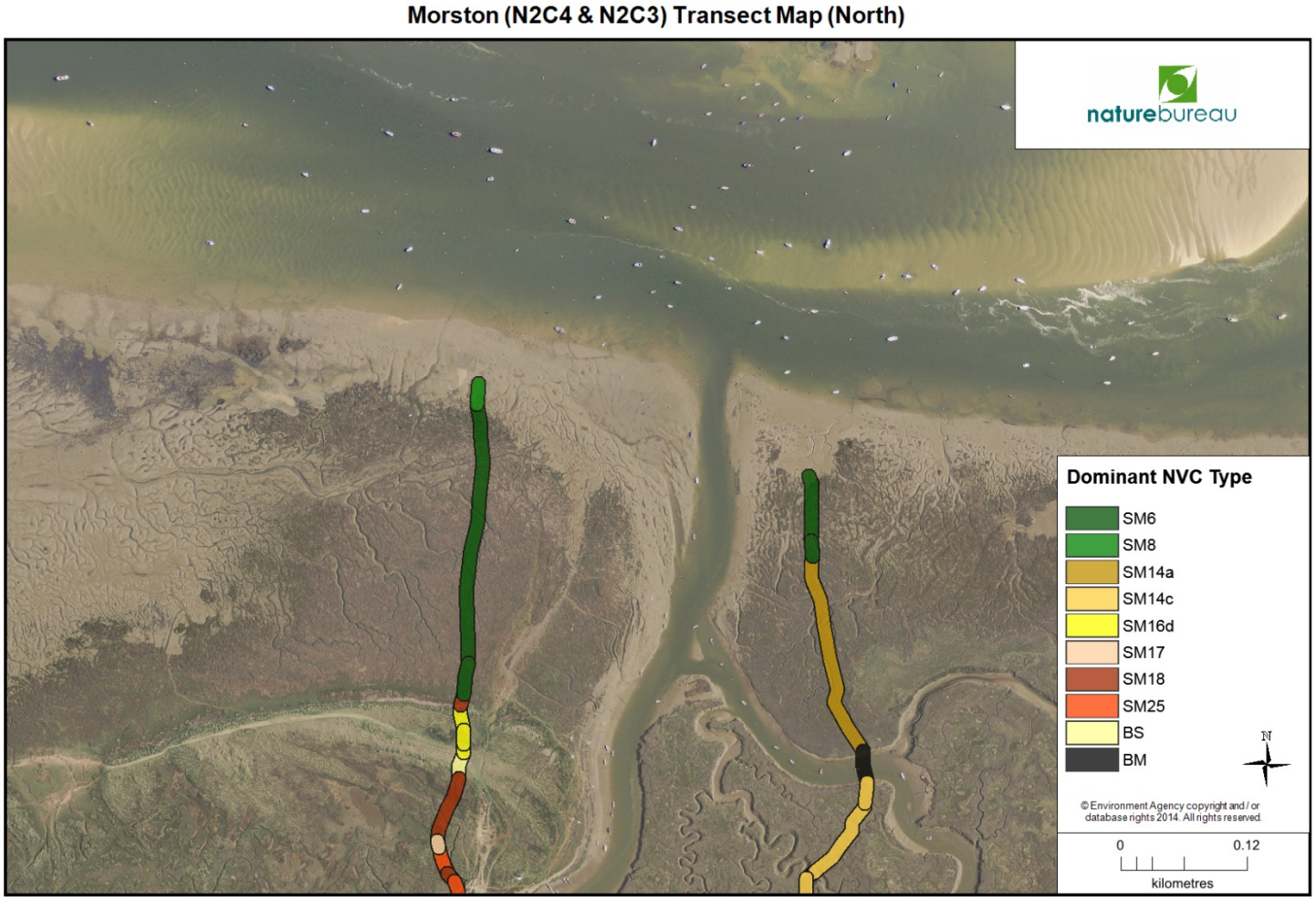

Figure 3-42: Transect Map for Morston N2C4 & N2C3 (North). Full habitat maps are included in the appendices.

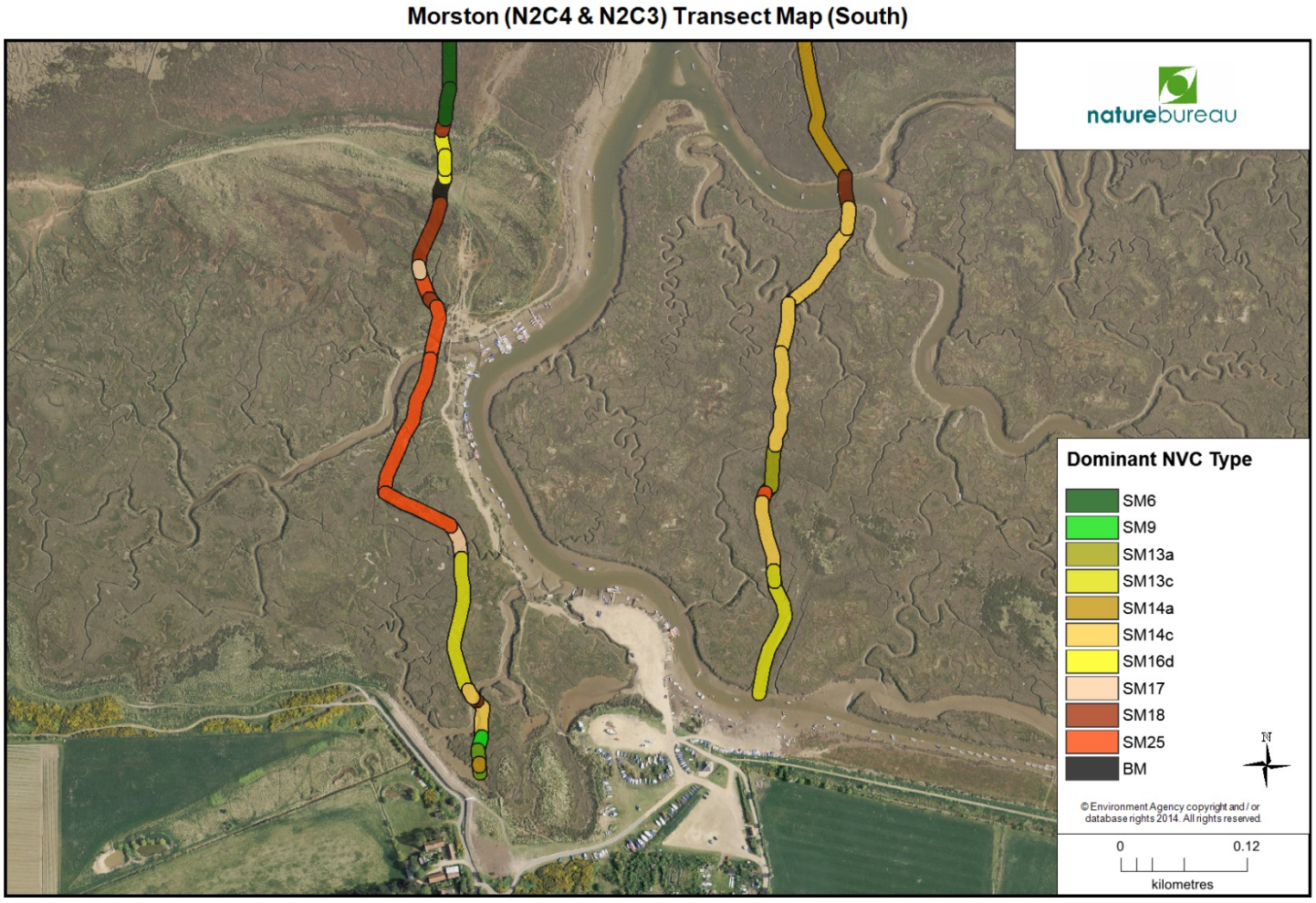

Figure 3-43: Transect Map for Morston N2C4 & N2C3 (South). Full habitat maps are included in the appendices.

This survey represents an assessment of one section of the large marsh complex found between Wells-next-the-Sea and Blakeney and details the two transects walked at Morston, near Blakeney.

The entire area is a back-barrier marsh protected by large sand deposits. The saltmarsh changes to mesotrophic and amenity grassland and a tourist quay landward of the main saltmarsh.

The Annex I saltmarsh habitats present are: *Salicornia* and other annuals colonising mud and sand; Atlantic salt meadows, and Mediterranean and thermo-Atlantic halophilous scrubs.

This section of marsh includes pioneer, lower, middle and upper marsh. The following sub-communities were recorded across the survey transect:

- SM6 (*Spartina anglica* saltmarsh)
- SM8 (Annual *Salicornia* saltmarsh)
- SM9 (*Suaeda maritima* saltmarsh)
- SM11 (*Aster tripolium* var. *discoideus* salt-marsh community)
- SM13 (*Puccinellia maritima* saltmarsh)
    - SM13a (*Puccinellia maritima* dominated sub-community)
    - SM13c (*Limonium vulgare-Armeria maritima* sub-community)
- SM14 (*Halimione portulacoides* saltmarsh)
    - SM14a (*Halimione portulacoides* dominant sub-community)
    - SM14c (*Puccinellia maritima* sub-community)
- SM16 (*Festuca rubra* saltmarsh)
    - SM16b (*Juncus gerardii* dominated sub-community)
    - SM16d (Tall *Festuca rubra* dominated sub-community)
- SM17 (*Artemisia maritima* saltmarsh)
- SM18 (*Juncus maritimus* saltmarsh community)
    - SM18a (*Plantago maritima* sub-community)
- SM25 (*Suaeda vera* drift-line community)
- SM28 (*Elymus repens* saltmarsh)

Pioneer marsh is represented by SM8, SM9 and SM11, but is found in smaller areas than on other sections of this saltmarsh complex. Large and dense areas of *Spartina anglica* are found at the seaward edge of the marsh. Both the rayless and rayed forms of *Aster tripolium* are present in the pioneer zone (mapped as SM11 and SM12a).

Lower marsh including SM14a and SM13a is found landward of SM6 with abundant to dominant *Atriplex portulacoides*.

The centre of the saltmarsh includes driftline vegetation and blown sand and shingle that is associated with some interesting vegetation communities. SM18a with *Juncus maritimus* is present at the lower edges of the driftline in wetter areas, while SM16b with *Juncus gerardii* also present. A colony of bees were recorded burrowing into the sand in this area (see Figure 3-44). This bee species is possibly the BAP listed Sea-aster Bee *Colletes halophilus* (identification to be confirmed).

Figure 3-44: Colletes halophilus *burrowing into sand on the saltmarsh*

Landward of the shingle ridges the saltmarsh follows the mosaics recorded from the other sections of the site that include SM13c, SM14c and SM25. SM28 is found near the landward border of the site.

Dendritic creeks are present across the whole marsh in a range of sizes and depths. A number of deeper and wider creeks with thick mud deposits are also present. Larger creeks appear to have been modified to allow access by boats or to support the draining of neighbouring land. Large pans are associated with areas of SM13c. Some of the pans are occupied by invertebrates and fish, but many pans show signs of light fouling. There are few pans found near the front of the marsh. The small pans that are present at the front of the marsh are covered in algae and show little other signs of life.

Spartina anglica is abundant on this site. *Spartina anglica* is also found landward in pans in the middle and upper marsh zones (see Figure 3-45).

Figure 3-45: Large, dense areas of Spartina anglica

Tourist pressure is also high on this site and has caused significant erosion to the marsh along footpaths that lead to tourist boats. Although damage is evident from these areas, it is localised and causes little impact on the larger surrounding saltmarsh vegetation (see Figure 3-46).

Figure 3-46: Significant compaction and erosion caused by tourist traffic

There appears to be some modifications to the natural development of saltmarsh zones on this site with lower marsh present near the landward edge of the marsh, where it is found near the edge of a large creek.

4 North Norfolk SAC Ecology

This section of the report provides the results of the field surveys relating to the North Norfolk SAC saltmarsh features as a whole. Specific information regarding individual sites and transects are provided in Section 3.

4.1 Zonation

Figure 4-1 and Figure 4-2 provide an overview of the saltmarshes mapped as part of the 2013 surveys. The North Norfolk saltmarshes have a full representation of saltmarsh zones.

Figure 4-1: Overview of the saltmarsh areas recorded from the North Norfolk SAC (west).

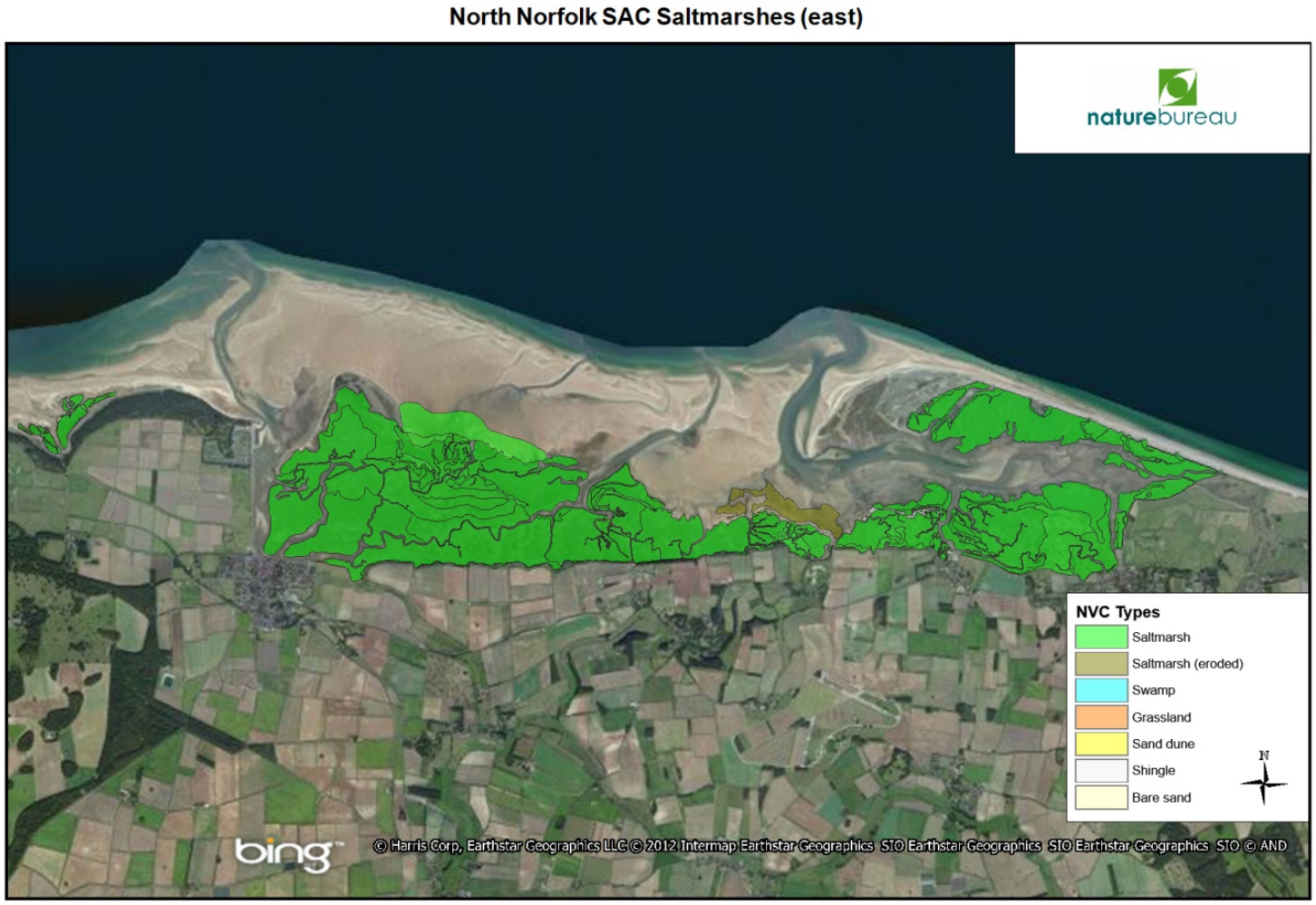

Figure 4-2: Overview of the saltmarsh areas recorded from the North Norfolk SAC (east).

Table 4-1 provides a link between saltmarsh zonation's and NVC communities. This is based on the common standards monitoring guidelines (JNCC, 2004).

Table 4-1: Saltmarsh zonation and NVC look-up table

	NVC Community	**Community name**
Pioneer saltmarsh	SM4	*Spartina maritima*
	SM5	*S. alterniflora*
	SM6	*Spartina anglica* saltmarsh
	SM7	*Sarococornia perennis*
	SM8	Annual *Salicornia* saltmarsh
	SM9	*Suaeda maritima* saltmarsh
	SM11	*Aster tripolium* var. *discoides* saltmarsh
	SM12	*Rayed Aster tripolium* on saltmarsh
	NVC Community	**Community name**
Low-mid marsh communities	SM10	Transitional low marsh vegetation with *Puccinellia maritima*, annual *Salicronia* species and *Suaeda maritima*
	SM13a	*Puccinellia maritima* saltmarsh, *Puccinellia maritima* dominant sub-community
	SM14	*Atriplex portulacoides* saltmarsh
	NVC Community	**Community name**
Mid-upper marsh communities	SM13b	*Puccinellia maritima* saltmarsh, *Glaux maritima* dominant sub-community
	SM13c	*Puccinellia maritima* saltmarsh*, Limonium vulgare-Armeria maritima* dominant sub-community
	SM13d	*Puccinellia maritima* saltmarsh, *Plantago maritima-Armeria maritima* dominant sub-community
	SM13e	*Puccinellia maritima* saltmarsh, turf fucoid sub-community
	SM13f	*Puccinellia maritima - Spartina maritima* sub-community
	SM15	*Juncus maritimus- Triglochin maritima* saltmarsh
	SM16a	*Festuca rubra saltmarsh Puccinellia maritima* sub-community
	SM16b	*Festuca rubra saltmarsh Jucus gerardii* sub-community
	SM16c	*Festuca rubra* saltmarsh *Festuca rubra - Glaux maritima* sub-community
	SM16d	*Festuca rubra* saltmarsh *Festuca rubra* sub-community
	SM16e	*Festuca rubra* saltmarsh *Leontodon autumnalis* sub-community
	SM16f	*Festuca rubra* saltmarsh *Carex flacca* sub-community
	SM17	*Artemisia maritima* saltmarsh
	SM18	*Juncus maritimus* saltmarsh
	SM19	*Blysmus rufus* saltmarsh
	SM20	*Eleocharis uniglumis* saltmarsh
	SM21	*Suaeda vera - Limonium binervosum* saltmarsh
	SM22	*Atriplex portulacoides - Frankenia laevis* saltmarsh
	SM23	*Spergularia marina - Puccinellia distans* saltmarsh
	SM26	*Inlua crithmoides* stands
	SM27	Ephemeral saltmarsh vegetation *Sagina maritima*
	NVC Community	**Community name**
Drift-line	SM24	*Elytrigia atheria* saltmarsh
	SM25	*Suaeda vera* drift-line
	SM28	*Elytrigia repens saltmarsh*

Large areas of pioneer marsh are present across the Blakeney saltmarshes with *Suaeda maritima* being one of the most abundant species in this zone.

Lower marsh is represented by mixed vegetation including *Puccinellia maritima*, *Suaeda maritima* and *Salicornia europaea* agg. (SM10) and vegetation dominated by *Puccinellia maritima* (SM13a).

The middle marsh zone occupies the largest area across the North Norfolk saltmarshes and is represented by a mixture of vegetation dominated by *Puccinellia maritima*, *Atriplex portulacoides* and *Limonium vulgare*. SM13 and SM14 are the most common communities present.

Upper marsh is represented in narrow belts at the landward edges of the marsh and is more often represented by vegetation associated with the driftline zone. Swards dominated by *Festuca rubra* and *Juncus gerardii* are restricted in North Norfolk, but communities including *Juncus maritima*, *Seriphidium maritimum*, *Festuca rubra* and *Agrostis stolonifera* are more common.

Driftline vegetation is present on most sites as narrow belts of vegetation dominated by *Suaeda vera* and *Elytrigia repens* (SM25 and SM28).

There were only a limited number of sites that showed signs of anthropogenic changes to the zonation of the marshes. The transect at Holm N1C2 showed signs of anthropogenic disturbance.

4.2 **Vegetation communities**

The most commonly occurring NVC sub-communities found across the saltmarshes include the following (grouped in order from pioneer to upper and driftline zones):

SM6 (Spartina anglica saltmarsh)

SM6 is found across most of the North Norfolk saltmarshes and is found in localised, but dense areas; at or near the seaward edge of the marsh (in the pioneer zone). The community is normally found on deep and loose mud deposits and can sometimes be associated with small pans. Green algae is commonly found at the base of the plants.

Spartina anglica dominates the sward with associated species including: *Salicornia europaea* agg.*; Aster tripolium* (Rayless); and *Puccinellia maritima*.

Large areas of SM6 are found at Morston (see 3.10), but there was little evidence of expansion across most sites.

All SM6 communities were inspected for evidence of *Spartina maritima, Spartina alterniflora and Spartina x townsendii* individuals. No evidence of these species was found and therefore the SM6 community has not been attributed to the Annex I H1320 *Spartina swards* Annex I habitat type.

SM8 (Annual Salicornia saltmarsh)
Annex I - H1310 Salicornia and other annuals colonising mud and sand

SM8 is found frequently across the North Norfolk saltmarshes. It is normally found in narrow belts at the seaward edge of the marsh and at creek edges. It is also found growing in dried out pans. SM8, although frequent, is not found in significantly large areas.

Salicornia europaea agg. is the key species found with associates including: *Puccinellia maritima*; *Spartina anglica*; *Suaeda maritima*; and *Limonium vulgare*. *Salicornia europaea*

agg. is also found as the sole species constituent, where it is found spread sporadically across bare sands and mud.

SM9 (Suaeda maritima saltmarsh)
Annex I - H1310 Salicornia and other annuals colonising mud and sand

SM9 is found in large areas across Blakeney and Thornham saltmarshes. *Suaeda maritima* is the dominating species, but *Salicornia europaea* agg. can also be abundant. Associate species include: *Atriplex portulacoides*, *Aster tripolium* and *Limonium* spp. and *Spartina anglica.*

SM11 (Aster tripolium var. discoideus salt-marsh community)
Annex I - H1310 Salicornia and other annuals colonising mud and sand

The rayless form of *Aster tripolium* is common across the North Norfolk saltmarshes. The description of a rayless form refers to a lack of flower petals. The variant described in the NVC type is no longer taxonomically recognised. A few sites also include the rayed variant, but the rayless form was much more common. SM11 is found in the pioneer and lower marsh areas and can also be found at the edges of larger creeks. The rayless form of *Aster tripolium* is the most abundant species with associates including: *Puccinellia maritima; Spartina anglica; Salicornia europaea* agg.*; Suaeda maritima*; and *Limonium* spp.

SM13c (Limonium vulgare-Armeria maritima sub-community)
Annex I H1330 Atlantic salt meadows

SM13c is one of the main sub-communities found across all sites and forms a mosaic with SM14c or SM14a in the middle marsh zone. SM13c is a diverse community and occurs in flat areas or depressions. Large pans retaining water are strongly associated with this sub-community. *Limonium vulgare* is the most abundant species found within SM14c. Associates include: *Puccinellia maritima*; *Armeria maritima*; *Triglochin maritimum*; *Atriplex portulacoides*; *Salicornia europaea* agg.; *Plantago maritima*; and *Suaeda maritima*.

SM14a (Halimione portulacoides dominant sub-community)
Annex I - H1330 Atlantic salt meadows

Along with SM13c and SM14c, this sub-community is one of the most common saltmarsh sub-communities found across the North Norfolk SAC. SM14a is dominated by *Atriplex portulacoides. Atriplex portulacoides* can be the only constituent species present across some areas. SM14a is strongly associated with the edges of creeks and can cover large areas. The pale glaucous colour of *Atriplex portulacoides* is distinctive, aiding identification of the sub-community.

SM14a is regularly found in mosaic with SM13c.

Associates include: *Limonium vulgare*; *Puccinellia maritima*; *Suaeda maritima*; and *Aster tripolium*. *Suaeda vera* and *Seriphidium maritimum* can also be found in this sub-community.

SM14c (Puccinellia maritima sub-community)
Annex I - H1330 Atlantic salt meadows

Along with SM13c and SM14a, this sub-community is one of the most common saltmarsh sub-communities found across the North Norfolk SAC. SM14c is similar to SM14a, but *Atriplex portulacoides* is not dominant and other species such as *Puccinellia maritima* and

Limonium vulgare have greater coverage. SM14c is not as strongly associated with creeks as SM14a. SM14c is often found in a mosaic with SM13c.

SM25 (Suaeda vera drift-line community)
Annex I - H1420 Mediterranean and thermo-Atlantic halophilous scrubs

SM25 is found on most of the North Norfolk saltmarshes. SM25 is normally found as a narrow belt of *Suaeda vera* either at the landward edge of the marsh or in the transition zone to sand dune vegetation. SM25 can also be found as part of the middle and upper marsh mosaic along with SM13c and SM14c. The key species is *Suaeda vera* with *Elytrigia repens* often present. Some stands include an understorey of *Atriplex portulacoides* or *Suaeda maritima.* Much of the ground is open and covered in leaf litter.

4.3 Locally and nationally scarce species

The following species were recorded within the North Norfolk SAC that are locally or nationally scarce:

Suaeda vera (Shrubby sea-blite)

Status: Nationally Scarce

Suaeda vera is an occasional native of South England from Dorset to South Lincs. It is generally found to be locally abundant on shingle above high water mark (Rose, 2006).

On the North Norfolk SAC, *Suaeda vera* is found at numerous sites and can be concluded to be locally common. It is typically found in raised areas which are less exposed to tidal inundation. It is also occasionally found in the low-mid marsh SM14a community.

A summary of the Quadrats containing Suaeda vera is presented in Table *4-2.*

Table 4-2: Quadrats containing Suaeda vera

Site Name	**TN**	**Description**	Position
Brancaster (North) N1C7	Q001	Sample 1. SM25	N52.97466 E0.65076
Burnham N1A1	Q026	Sample 5. SM14a	N52.97116 E0.75590
Burnham N1A1	Q027	Change to SM25. Sample 6. SM25	N52.97158 E0.75567
Burnham N1A1	Q039	Sample 18. SM25 with SM9 understorey.	N52.97633 E0.75582
Burnham and Scolt Head N1B3	Q040	Transect start. Sample 1. SM25	N52.98627 E0.70011
Burnham and Scolt Head N1B3	Q041	Sample 2. SM25	N52.98627 E0.70011
Burnham and Scolt Head N1B3	Q052	Change to SM25. Sample 13. SM25	N52.97779 E0.69803
Burnham and Scolt Head N1B3	Q054	Sample 15. SM25	N52.97705 E0.69805
Burnham and Scolt Head N1B3	Q055	Change to SM14b. Sample 16. SM14b	N52.97702 E0.69803

Site Name	TN	Description	Position
Burnham and Scolt Head N1B3	Q058	Change to SM14b. Sample 19. SM14b	N52.97641 E0.69813
Burnham and Scolt Head N1B3	Q065	Change to SM28. Sample 26. SM28	N52.97337 E0.69909
Holme N1D6A	Q066	SM25. Sample 1. SM25	N52.97122 E0.53784
Holme N1D6A	Q068	Change to SM25 (Suae vera shrubs with sandy Suae mari and Limo sp. understorey). Sample 4. SM25 Rabbit grazed.	N52.97138 E0.53750
Holme N1D6A	Q069	Sample 5. Limo bine. SM25 Rabbit grazed	N52.97142 E0.53732
Holme N1D6A	Q070	Sample 6. SM25. Rabbit grazed	N52.97141 E0.53719
Holme N1D6A	Q071	Change to SM21. Sample 7. SM21. Rabbit grazed	N52.97147 E0.53710
Holme N1D6A	Q072	Change to SM28. Sample 8. SM28	N52.97145 E0.53705
Holme N1D6A	Q085	Change to SM13a with Limo vulg (same as the section before SM10). Like 163. Sample 21. SM13a	N52.97284 E0.53583
Holme N1D6A	Q087	Change to SM21. Sample 23. SM25	N52.97292 E0.53583
Holkham	Q110	Change to shingle ridge with Suae mari v.narrow belt and shrubs of Suae vera. Shingle area is SM25 and BSH (2/8). Sample 6. SM25	N52.97210 E0.81012
Holkham	Q111	Change to Limo bine dominated area. Sample 7. SM21	N52.97214 E0.81033
Holkham	Q116	Sample 12. SM14a	N52.97342 E0.81417
Holkham	Q117	Change to SM21 on sand. Sample 13. SM25	N52.97376 E0.81489
Holkham	Q120	Large area of Limo bine to the west. Sample 16. SM21	N52.97470 E0.81769
Thornham (Transect 1)	Q122	S4 to the rear in drainage ditch. Start of SM28. Sample 1. SM28	N52.96564 E0.58077
Thornham (Transect 1)	Q137	Change to SM28. Sample 16. SM28	N52.96723 E0.58046
Thornham (Transect 1)	Q138	Sample 17. SM28	N52.96732 E0.58052
Thornham (Transect 1)	Q139	Sample 18. SM28	N52.96740 E0.58049
Thornham (Transect 2) N1C3	Q158	Change to SM28. Sample 8. SM28	N52.96898 E0.58990
Thornham (Transect 2) N1C3	Q163	Change to SM28. Sample 13. SM28	N52.96635 E0.58935
Stiffkey N2D4	Q164	Transect start. Sample 1. SM25. Earth bank at rear with MG1. Mostly middle marsh, flat with lots of pans and small creeks.	N52.95705 E0.91926
Stiffkey N2D4	Q168	Sample 5. SM28	N52.95891 E0.91916
Stiffkey N2D4	Q171	Sample 8. SM28	N52.96126 E0.91939
Stiffkey N2D4	Q172	Start of other side of creek. Sample 9. SM17	N52.96199 E0.91969
Stiffkey N2D4	Q176	Sample 14. SM17	N52.96356 E0.91984
Stiffkey N2D4	Q181	Change to SM28. Sample 19. SM28	N52.96490 E0.91913
Stiffkey N2D4	Q182	Sample 20. SM28	N52.96503 E0.91915
Warham ND2D	Q189	Start of transect. Sample 1. SM25	N52.95654 E0.89059
Warham ND2D	Q193	Sample 5. SM25	N52.95722 E0.89084
Warham ND2D	Q195	Sample 7. SM25	N52.95884 E0.89078
Warham ND2D	Q199	Sample 11. SM17. Note that SM17 is very similar to SM14c they are the same accept for Serp mari, Fes rubr, and Elyt repe	N52.96274 E0.89117

Site Name	TN	Description	Position
Warham ND2D	Q203	Sample 15. SM17	N52.96447 E0.89167
Warham ND2D	Q205	Sample 17. SM25. Note that SM25 looks like SM28 with Suae vera. This area is upper marsh. Pan areas filled with SM14c	N52.96493 E0.89171
Warham ND2D	Q207	Sample 19. SM25	N52.96517 E0.89162
Morston N2C4	Q235	Sample 11. SM25	N52.96001 E0.98227
Morston N2C4	Q236	Sample 12. SM25	N52.96013 E0.98174
Morston N2C4	Q238	Sample 14. SM25	N52.96170 E0.98235
Morston N2C4	Q240	Sample 16. SM25	N52.96198 E0.98214
Morston N2C3	Q260	Change to Sample 25 and 26. SM14a	N52.96014 E0.98691
Morston N2C3	Q261	Drift line of SM25. Sample 27 and 28. SM25	N52.96009 E0.98682
Stiffkey N2D6	Q265	Change to SM25. Sample 2. SM25	N52.95855 E0.94846
Stiffkey N2D6	Q266	Sample 3. SM14a	N52.95867 E0.94855
Stiffkey N2D6	Q269	Change to SM25. Sample 6. SM25	N52.95903 E0.94875

Limonium bellidifolium (Matted sea-lavender)

Status: Red Data Book - Lower risk - near threatened

Limonium bellidifolium's UK range is restricted to Norfolk and Lincolnshire where it is very localised. However, it can be frequent in areas where it is present. It is typically found in the dry sandy upper parts of saltmarshes (Rose, 2006).

Across the North Norfolk SAC *Limonium bellidifolium* is restricted to two sites: Holme and Holkham. It is found in a range of saltmarsh communities including SM25, SM21, SM14a, SM13a and SM8.

A summary of the Quadrats containing *Limonium bellidifolium* is presented in Table 4-3.

Table 4-3: Quadrats containing Limonium bellidifolium

Site Name	TN	Description	Position
Holme N1D6A	Q068	Change to SM25 (Suae vera shrubs with sandy Suae mari and Limo sp. understorey). Sample 4. SM25 Rabbit grazed.	N52.97138 E0.53750
Holme N1D6A	Q069	Sample 5. Limo bine. SM25 Rabbit grazed	N52.97142 E0.53732
Holme N1D6A	Q070	Sample 6. SM25. Rabbit grazed	N52.97141 E0.53719
Holme N1D6A	Q071	Change to SM21. Sample 7. SM21. Rabbit grazed	N52.97147 E0.53710
Holme N1D6A	Q074	Sample 10. SM10	N52.97207 E0.53608
Holme N1D6A	Q083	Sample 20. SM8	N52.97268 E0.53584
Holme N1D6A	Q088	Sample 24. Possible SM13a	N52.97202 E0.53606
Holkham	Q116	Sample 12. SM14a	N52.97342 E0.81417

Limonium binervosum (Rock sea-lavender)

Status: Red Data Book - Lower risk - Nationally Scarce

Limonium binervosum is common on the coasts of England, where it is found on sea cliffs, shingle and the drier areas of saltmarshes (Rose, 2006).

On the North Norfolk SAC *Limonium binervosum* is found at four sites: Brancaster (N1C7). Burnham N1A1, Hole N1D6A and Holkham.

A summary of the Quadrats containing *Limonium binervosum* is presented in Table 4-4.

Table 4-4: Quadrats containing Limonium binervosum

Site Name	TN	Description	Position
Brancaster (South) N1C7	Q020	Sample 8. SM13c	N52.96683 E0.64852
Burnham N1A1	Q029	Sample 8. SM14c. Looks similar to SM13c (as previous). Lots of high level pans. Retaining water. Evidence of worms in pans. No inverts.	N52.97218 E0.75576
Holme N1D6A	Q069	Sample 5. Limo bine. SM25 Rabbit grazed	N52.97142 E0.53732
Holme N1D6A	Q070	Sample 6. SM25. Rabbit grazed	N52.97141 E0.53719
Holme N1D6A	Q072	Change to SM28. Sample 8. SM28	N52.97145 E0.53705
Holkham	Q106	Change to SM8. Sample 2. SM8	N52.97187 E0.80795
Holkham	Q108	Change to narrow belt of SM9 at edge of eroded path. Sample 4. SM9	N52.97193 E0.80929
Holkham	Q109	Sample 5. SM8. Note that this sample is taken from a slightly raised area and there is not much Sali, but it is the same community.	N52.97208 E0.80997
Holkham	Q111	Change to Limo bine dominated area. Sample 7. SM21	N52.97214 E0.81033
Holkham	Q112	Change to Limo humi dom area. Sample 8. SM13c (Limo humi)	N52.97215 E0.81041
Holkham	Q113	Change to SM9. Sample 9. SM9	N52.97229 E0.81076
Holkham	Q120	Large area of Limo bine to the west. Sample 16. SM21	N52.97470 E0.81769

The locations of these species are discussed in the individual survey descriptions (see Section 3).

4.4 **Creeks and pans**

Creeks and pans were present across most of the North Norfolk saltmarshes. Creeks are found in a range of sizes across each site. Reference to aerial photography did not indicate any significant changes to the creeks at the time of survey. Few creeks were observed to be modified in anyway. The only sites where such modifications were recorded included Holm N12C (see Holme N1C2) and Morston (see 3.10).

Pans were found to be mostly retaining water with most observed to be in healthy condition. Large pans are found in the middle and upper marsh zones and are strongly associated with SM13c. Smaller pans are present near the seaward edge of the marsh on many sites and can even be present on sandy pioneer marsh. Reference to aerial photography did not indicate any significant changes to the pans on any of the sites surveyed.

4.5 **Human impacts**

Human impacts are minimal across the saltmarshes. The absence of grazing has allowed a diverse range of saltmarsh vegetation communities to develop. The most significant anthropogenic pressures relate to historic drainage and tourist pressure.

Many of the neighbouring parcels of land were formerly saltmarsh. Although this shows a historic loss, these areas do not show significant negative impacts on the remaining marshes.

Tourist pressure is localised across the North Norfolk SAC and the compaction and erosion caused on footpaths is minimal in relation to the wider area of saltmarsh present. It is also highly localised in areas which experience high numbers of tourist footfall (e.g. Morston Key and Holkham)

The saltmarsh at Holkham (see 3.7) shows the most damage from tourist pressure. Pioneer saltmarsh is present here, possibly as a result of a constant erosion/colonisation process. There is no mention of surface erosion at Holkham in the Posfords report (Posfords Haskoning Ltd., 2003) and the area was previously mapped as SM14. This area is now occupied by a mosaic of SM8, SM9 and SM13a.

The presence of *Spartina anglica* requires monitoring into the future to assess its impacts on existing Annex I habitat types. *Spartina anglica* is a native species, but is often considered a negative feature in condition assessments as it can pose a threat to the H1140 Intertidal mudflats (C. Lacambra, 2004). These are important habitats which are used as feeding-grounds by large populations of waders and wildfowl. However, it can also act as a pioneer species for the formation of H1330 Atlantic salt meadow. The species should be monitoried in the future to quantify any possible effects.

Based on the transects, large stands of *Spartina anglica* are present at Stiffkey and Morston. However, there were no indicative signs of expansion based on reference to previous aerial photography and reports.

Table 4-5: Target notes recording damage are summarised in Table 4-5.

Table 4-5: Target notes recording damage

Site Name	TN	Description	Position
Burnham N1A1	TN048	Eroded path through SM9	N52.97618 E0.75580
Burnham N1A1	TN052	Pictures of stone wave breaks and erosion of marsh. Vertical staging of marsh is approx. 0.5m with a sediment step and shingle bank.	N52.97472 E0.75385
Burnham and Scolt Head N1B3	TN057	In large creek/estuary mouth. Eroded saltmarsh. Sediment is 0.5m deep.	N52.97728 E0.70304
Home N1C2	TN096	Suaeda vera areas with Elyt repe.Limonium bellidifolium also present beside path. Signif erosion from path at rear of marsh. SD transition area.	N52.97410 E0.56204
Holkham	TN101	Start of transect. Changed location of first point as it was in a nondescript location. It is now next to the bridle path post. Heavy erosion present, mostly due to horses. Bridle path is very wide (over 30m).	N52.97178 E0.80776
Holkham	TN103	Damage by horses. Limonium humile present.	N52.97199 E0.80843
Holkham	TN104	Tire damage.	N52.97209 E0.80878
Holkham	TN106	Change to narrow belt of SM8 at edge of eroded path.	N52.97223 E0.81065
Holkham	TN108	Change to eroded path.	N52.97247 E0.81110
Stiffkey N2D4	TN147	Eroded path with small areas of SM8	N52.95943 E0.91972
Stiffkey N2D4	TN152	Pictures of footpath erosion	N52.96059 E0.92315
Warham ND2D	TN158	Path erosion	N52.95818 E0.89113
Morston N2C4	TN175	Pictures of eroded path.	N52.96146 E0.98237

4.6 **Saltmarsh Sub-Features**

The saltmarsh communities and sub-communities identified in Section 4.2 have been aggregated into saltmarsh sub-features. This is displayed in Table 4-6. The results are displayed in Figure 4-3 and Figure 4-4.

The chosen sub-features relate to those identified in the Posford report (Posfords Haskoning Ltd., 2003) and are listed below. It should be noted that Cordgrass swards differ from the Annex I definition of *Spartina* swards. For the purpose of this exercise Cordgrass swards have been mapped as a separate sub-feature but consist only of the *Spartina anglica* SM6 community.

- *Salicornia* and other annuals colonising mud and sand (referred to as pioneer saltmarsh)
- Cordgrass swards
- Atlantic salt meadows (*Glauco-Puccinellietalia)*
- Mediterranean and thermo-Atlantic halophilous scrubs (*Arthrocnemetalia)*

Where mosaics of community types were recorded in the field, the dominant community type was incorporated into the saltmarsh sub-features. For example, the mosaic of SM14 (7) + SM8 (3) was recorded within the Atlantic saltmarsh sub-feature.

Where mosaics of SM25 and SM28 occur these have been recorded within the Mediterranean sub-feature. When these two communities occur together in the field, the differences between them is often small with the defining feature being the abundance of *Suaeda vera* and *Elytrigia repens*. It was therefore decided that all mosaic SM28 and SM25 communities could be suitably mapped within the Mediterranean sub-feature.

It should be noted that the sub-feature maps provide an indicative representation of the sub-features present and should be used alongside the quadrat data and the GIS database.

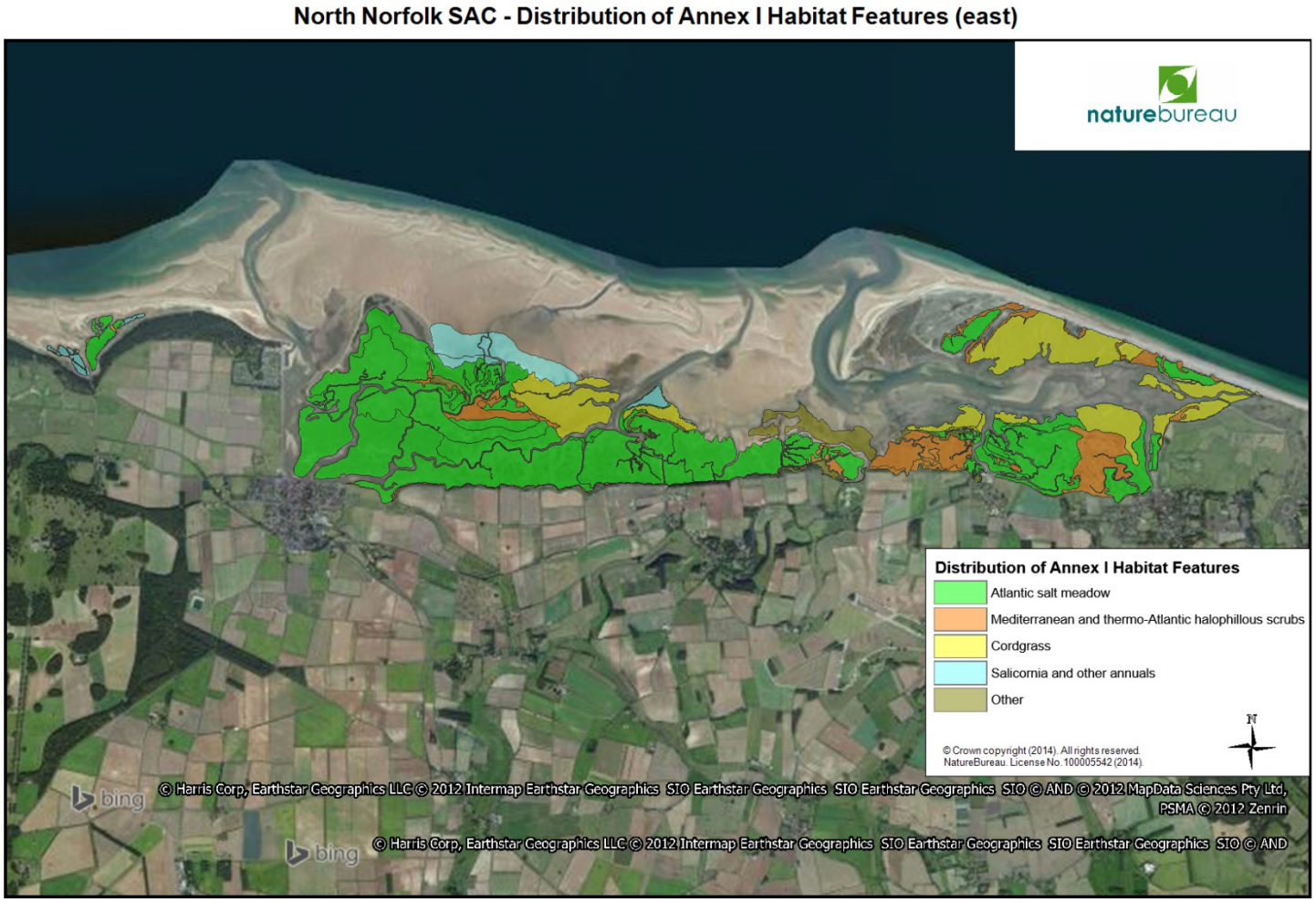

Figure 4-3: North Norfolk SAC saltmarsh sub-features (west)

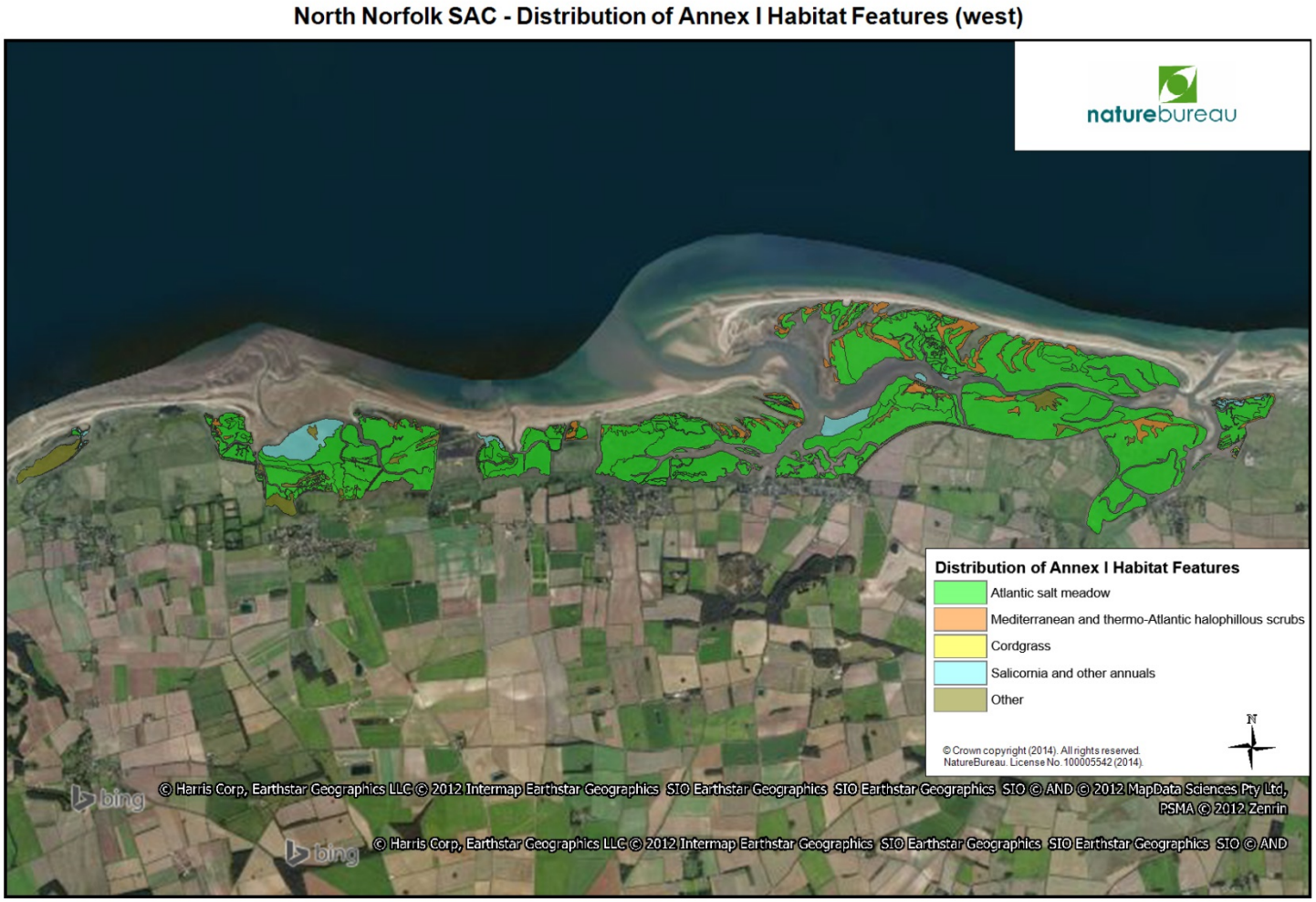

Figure 4-4: North Norfolk SAC saltmarsh sub-features (east)

Table 4-6: Areas (ha) and percentages of saltmarsh sub-features within North Norfolk SAC (2013)

Sub-feature	Area (ha)	Percentage of Total Norfolk Saltmarsh
Pioneer	126.92	5.23%
Cordgrass	249.12	10.27%
Atlantic	1715.29	70.71%
Mediterranean	234.75	9.68%
Other	99.78	4.11%
Total	**2425.86**	

4.7 Comparison with Posfords (2003) survey

The previous survey report of the North Norfolk SAC (Posford Haskoning Ltd, 2003) was reviewed as part of this project. Most of the NVC communities align with the findings of the current survey. Most of the minor variation between the NVC communities identified in the Posford's report and the current survey can be considered as variance in the interpretation of the NVC communities under investigation.

Sub-feature comparison

This section provides a comparison of the extent of saltmarsh sub-features mapped in 2013 and in the 2003 Posford's report (Posfords Haskoning Ltd., 2003).

Only an estimate can be provided due to the different methods utilised by each survey and the subjective nature of habitat and mosaic mapping.

Additionally, the map produced in 2013 is at a much finer scale than the 2003 map which makes accurate comparisons between the two data sets difficult. The 2013 map utilises the mosaic mapping method to map smaller communities and sub-communities than were previously mapped by Posfords. The maps provided with this report give a more accurate picture of the distribution of NVC communities, sub-communities and saltmarsh features.

However, the differences in mapped areas between the two surveys are relatively small. Therefore it can be concluded that the North Norfolk SAC saltmarsh sub-features have not changed greatly in extent between the two survey periods. This is supported by the evidence presented in the following 'Erosion and accretion' section.

Suggested reasons for differences in sub-feature extent are discussed below.

A comparison of saltmarsh sub-features mapped in 2003 and 2013 is presented in Table 4-7.

Table 4-7: Comparison of mapped saltmarsh sub-features (2003 and 2013)

Sub-feature	Area (ha) 2013	Area (ha) 2003	Percentage of Total Norfolk Saltmarsh 2013	Percentage of Total Norfolk Saltmarsh 2003
Pioneer	126.92	166.29	5.23%	7.71%
Cordgrass	249.12	94.98	10.27%	4.40%
Atlantic	1715.29	1697.02	70.71%	78.66%
Mediterranean	234.75	53.80	9.68%	2.49%
Other	99.78	145.31	4.11%	6.74%
Total	**2425.86**	**2157.41**		

Overall the total area of mapped features has increased from 2157.41 ha to 2425.86 ha.

The analysis shows that there has been a reduction in the areas of Pioneer marsh and Atlantic sub-features, while Cordgrass and Mediterranean sub-features have increased in area.

The most significant changes in sub-feature extent are experienced by the Cordgrass and Mediterranean sub-features. These changes may be attributed to the finer level of mosaic mapping undertaken as part of the current project.

The methodology (as described in 4.6) assigned sub-features to mosaic areas based on the dominant community. In 2013, the largest areas of Cordgrass (SM6) are mapped at Warham, Morston and Blakeney. In each of these areas it is mapped in a close mosaic with Pioneer and Atlantic salt meadow communities (for example SM6 (5) + SM8 (4) + SM14a (1)).

Mosaic mapping is a subjective process and these closely mapped mosaics could be interpreted differently and assigned to a different sub-feature. This may account for the increase in area of these sub-features as a visual analysis of the 2003 and 2013 maps only noted an increase in Cordgrass communities at Warham.

With the exception of Morston, it is worth noting that these areas were not included within the transects and therefore were not visited during 2013 field surveys. The mapping of these areas was undertaken through aerial photography interpretation alone.

The large increase in area of Mediterranean sub-features mapped may also be attributed to the mosaic mapping method. As described in Section 4.6, all mosaics consisting of SM25 and SM28 were included in the Mediterranean sub-feature. A different methodology may have attributed these mosaics to a different sub-feature.

As with the Cordgrass communities, the largest areas of Mediterranean sub-features are present in areas which were not crossed by transects and were therefore not investigated during the field work (for example Blakeney and the area west of the Morston transects).

Mediterranean sub-feature areas are also mapped in close mosaics with other sub-feature communities. Therefore the issue of interpretation and the subsequent assigning of sub-features may apply in these cases.

Erosion and accretion

Changes in extent of saltmarsh features, due to erosion and accretion, were noted at a number of sites during the 2013 field surveys and mapping exercises. A discussion of these changes and how they relate to the Posfords findings (Posfords Haskoning Ltd., 2003) is presented below.

Brancaster

The Posfords report (Posfords Haskoning Ltd., 2003) identified that Brancaster Bay was experiencing erosion in the central area (adjacent to the golf course) with deposition occurring at either end of the bay. The 2013 survey reached the same conclusion. This process will have been quickened by the storm surge of December 2013 and therefore this area is likely to have been modified since the 2013 surveys.

Additionally, the aerial photography interpretation mapping exercise identified that the area of the low-mid marsh present at the eastern end of the golf course, has expanded in a westerly direction. This area was not visited as part of the 2013 surveys but the area of marsh can clearly be seen on the aerial photography. The Posfords report (Posfords Haskoning Ltd., 2003) previously mapped this area as SM13/SM14. The same communities were concluded to be present in 2013.

Brancaster Staithe

New areas of Pioneer marsh and Atlantic salt meadows have accreted on the eastern side of the Brancaster Staithe Bay This concurs with the 2003 report which stated that erosion in the central part of the bay was being complimented by deposition on its eastern side (Posfords Haskoning Ltd., 2003).

Since the 2003 survey, previously mapped areas of SM14 low-mid marsh have expanded in a seaward direction, while new areas of pioneer SM9 marsh have accreted on the seaward edge.

Scolt Head

Differences in the area of saltmarsh mapped in 2003 and 2013 are present at Scolt Head.

The 2003 report identified the western end of Scolt Head as an area of the SAC subject to continuous deposition (Posfords Haskoning Ltd., 2003). The continuous supply of sediment provided by the sandbars and the process of longshore drift continues to support this process. However, there was a reduction in the extent of saltmarsh mapped in this area in 2013.

Areas in lee of the spit, mapped as Pioneer SM8 marsh in 2003, were not mapped in 2013. This area was not included as part of the transects in 2013 and therefore was mapped using aerial photography interpretation. It is likely that this area still supports saltmarsh communities but these could not be confidently identified through aerial photography interpretation and were therefore excluded from the 2013 maps.

Holkham

The saltmarsh at Holkham bay was identified in 2003 as newly accreting. This was as the result of a large storm event in the 20th century which created an offshore sand bar, allowing the deposition process to begin (Posfords Haskoning Ltd., 2003).

Whilst this area continues to build, the greatest change is due to surface erosion as a result of tourist traffic.

The western section of the marsh was mapped in 2003 as SM14 low-mid marsh. In 2013 this area was surveyed and mapped as a mixture of Pioneer (SM8 and SM9) communities and low-mid marsh SM13a.

This area is popular with tourists visiting Holkham Hall and this large number of visitors is likely to be the cause of the surface erosion.

Warham

Warham was not an area identified as experiencing deposition in the 2003 Posfords report (Posfords Haskoning Ltd., 2003).

However, based on the comparisons of the 2003 and 2013 vegetation maps, there has been a considerable increase in extent of saltmarsh communities at this site.

The area in question is present east of the Warham ND2D transect. Here areas of Pioneer SM9 marsh have been mapped on the seaward edge with areas of SM6 and SM13a mosaic behind. This SM6 and SM13a mosaic also continues in an easterly direction towards Stonemeal Creek.

This area was not visited as part of the 2013 surveys but the vegetation is clearly visible in the aerial photography.

Stiffkey

Based on field observations a section of saltmarsh has been lost to lateral erosion at Stiffkey.

The 2003 maps (Posfords Haskoning Ltd., 2003) show a belt of Pioneer SM8 marsh seaward of the sand dune ridge at the front of the marsh. The sand dune ridge was present at the time of the 2013 survey but the SM8 belt had been replaced by an area of eroded marsh.

Due to the condition of the eroded marsh it was not possible to discern any species or vegetation communities. This area was further investigated and the seaward extent of the erosion target noted.

The full extent of the eroded area has been mapped using target notes and interpretation of eroded areas of vegetation from aerial photography. This area has been mapped as ‘Eroded Saltmarsh’.

Based on the extent of the eroded marsh and the area mapped in 2003, it can be concluded that the marsh expanded in a seaward direction (after the 2003 survey) before an erosion event occurred and reduced the marsh to its current extent.

Morston

The saltmarsh at Morston is experiencing surface erosion as a result of tourist traffic. This was identified in the 2003 report and is further discussed in Section 3.10.

5 References

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6 Appendix

6.1 Saltmarsh Samples

The tables below present the results of the samples taken within each transect. A Domin score is given to each species along with the Sample ID (Quadrat Number) and NVC Type assigned to the sample.

The NVC types were latterly assigned based on interpretation of Floristic Tables within British Plant Communities (Rodwell, 1991a, 1991b, 1992, 1995, 2000) and analysis conducted using TableFit software (Hill, 1996).

Brancaster (North) N1C7

Site Name	Scientific Name	Common Name	Domin	Sample ID	NVC Type
Brancaster (North) N1C7	*Atriplex portulacoides*	Sea-purslane	**5**	Q001	SM25
Brancaster (North) N1C7	*Elytrigia atherica*	Sea Couch	**5**		
Brancaster (North) N1C7	*Elytrigia repens*	Common Couch	**5**		
Brancaster (North) N1C7	*Suaeda vera*	Shrubby Sea-blite	**8**		
Brancaster (North) N1C7	*Aster tripolium*	Sea Aster	**5**	Q002	SM16c
Brancaster (North) N1C7	*Festuca rubra*	Red Fescue	**9**		
Brancaster (North) N1C7	*Glaux maritima*	Sea-milkwort	**3**		
Brancaster (North) N1C7	*Limonium vulgare*	Common Sea-lavender	**7**		
Brancaster (North) N1C7	*Plantago maritima*	Sea Plantain	**4**		
Brancaster (North) N1C7	*Seriphidium maritimum*	Sea Wormwood	**1**		
Brancaster (North) N1C7	*Armeria maritima*	Thrift	**5**	Q003	SM13c
Brancaster (North) N1C7	*Limonium humile*	Lax-flowered Sea-lavender	**5**		
Brancaster (North) N1C7	*Limonium vulgare*	Common Sea-lavender	**5**		
Brancaster (North) N1C7	*Puccinellia maritima*	Common Saltmarsh-grass	**5**		
Brancaster (North) N1C7	*Salicornia europaea* agg.	Common Glasswort	**5**		
Brancaster (North) N1C7	*Suaeda maritima*	Annual Sea-blite	**4**		
Brancaster (North) N1C7	*Triglochin maritimum*	Sea Arrowgrass	**1**		

Site Name	Scientific Name	Common Name	Domin	Sample ID	NVC Type
Brancaster (North) N1C7	*Armeria maritima*	Thrift	**3**	Q004	SM13c
Brancaster (North) N1C7	*Limonium humile*	Lax-flowered Sea-lavender	**3**		
Brancaster (North) N1C7	*Limonium vulgare*	Common Sea-lavender	**4**		
Brancaster (North) N1C7	*Plantago maritima*	Sea Plantain	**2**		
Brancaster (North) N1C7	*Puccinellia maritima*	Common Saltmarsh-grass	**4**		
Brancaster (North) N1C7	*Salicornia europaea* agg.	Common Glasswort	**5**		
Brancaster (North) N1C7	*Suaeda maritima*	Annual Sea-blite	**2**		
Brancaster (North) N1C7	*Triglochin maritimum*	Sea Arrowgrass	**1**		
Brancaster (North) N1C7	*Armeria maritima*	Thrift	**3**	Q005	SM13c
Brancaster (North) N1C7	*Limonium humile*	Lax-flowered Sea-lavender	**3**		
Brancaster (North) N1C7	*Limonium vulgare*	Common Sea-lavender	**5**		
Brancaster (North) N1C7	*Plantago maritima*	Sea Plantain	**2**		
Brancaster (North) N1C7	*Puccinellia maritima*	Common Saltmarsh-grass	**4**		
Brancaster (North) N1C7	*Salicornia europaea* agg.	Common Glasswort	**5**		
Brancaster (North) N1C7	*Spergularia media*	Greater Sea-spurrey	**2**		
Brancaster (North) N1C7	*Suaeda maritima*	Annual Sea-blite	**2**		
Brancaster (North) N1C7	*Aster tripolium (Rayless)*	Rayless Sea Aster	**3**	Q006	SM14a
Brancaster (North) N1C7	*Atriplex portulacoides*	Sea-purslane	**8**		
Brancaster (North) N1C7	*Limonium vulgare*	Common Sea-lavender	**5**		
Brancaster (North) N1C7	*Plantago maritima*	Sea Plantain	**4**		
Brancaster (North) N1C7	*Puccinellia maritima*	Common Saltmarsh-grass	**5**		
Brancaster (North) N1C7	*Suaeda maritima*	Annual Sea-blite	**4**		
Brancaster (North) N1C7	*Triglochin maritimum*	Sea Arrowgrass	**2**		

Site Name	Scientific Name	Common Name	Domin	Sample ID	NVC Type
Brancaster (North) N1C7	*Aster tripolium (Rayless)*	Rayless Sea Aster	**4**	Q007	SM14a
Brancaster (North) N1C7	*Atriplex portulacoides*	Sea-purslane	**8**		
Brancaster (North) N1C7	*Limonium vulgare*	Common Sea-lavender	**4**		
Brancaster (North) N1C7	*Puccinellia maritima*	Common Saltmarsh-grass	**4**		
Brancaster (North) N1C7	*Suaeda maritima*	Annual Sea-blite	**3**		
Brancaster (North) N1C7	*Aster tripolium (Rayless)*	Rayless Sea Aster	**3**	Q008	SM14c
Brancaster (North) N1C7	*Atriplex portulacoides*	Sea-purslane	**6**		
Brancaster (North) N1C7	*Limonium vulgare*	Common Sea-lavender	**4**		
Brancaster (North) N1C7	*Plantago maritima*	Sea Plantain	**4**		
Brancaster (North) N1C7	*Puccinellia maritima*	Common Saltmarsh-grass	**8**		
Brancaster (North) N1C7	*Suaeda maritima*	Annual Sea-blite	**2**		
Brancaster (North) N1C7	*Aster tripolium (Rayless)*	Rayless Sea Aster	**4**	Q009	SM14a
Brancaster (North) N1C7	*Atriplex portulacoides*	Sea-purslane	**8**		
Brancaster (North) N1C7	*Plantago maritima*	Sea Plantain	**3**		
Brancaster (North) N1C7	*Puccinellia maritima*	Common Saltmarsh-grass	**5**		
Brancaster (North) N1C7	*Suaeda maritima*	Annual Sea-blite	**4**		
Brancaster (North) N1C7	*Aster tripolium (Rayless)*	Rayless Sea Aster	**4**	Q010	SM14c
Brancaster (North) N1C7	*Atriplex portulacoides*	Sea-purslane	**6**		
Brancaster (North) N1C7	*Limonium vulgare*	Common Sea-lavender	**3**		
Brancaster (North) N1C7	*Puccinellia maritima*	Common Saltmarsh-grass	**7**		
Brancaster (North) N1C7	*Suaeda maritima*	Annual Sea-blite	**3**		
Brancaster (North) N1C7	*Triglochin maritimum*	Sea Arrowgrass	**4**		

Site Name	Scientific Name	Common Name	Domin	Sample ID	NVC Type
Brancaster (North) N1C7	*Aster tripolium (Rayless)*	Rayless Sea Aster	**4**	Q011	SM14a
Brancaster (North) N1C7	*Atriplex portulacoides*	Sea-purslane	**9**		
Brancaster (North) N1C7	*Limonium vulgare*	Common Sea-lavender	**2**		
Brancaster (North) N1C7	*Puccinellia maritima*	Common Saltmarsh-grass	**5**		
Brancaster (North) N1C7	*Suaeda maritima*	Annual Sea-blite	**4**		
Brancaster (North) N1C7	*Armeria maritima*	Thrift	**4**	Q012	SM13c
Brancaster (North) N1C7	*Limonium humile*	Lax-flowered Sea-lavender	**3**		
Brancaster (North) N1C7	*Limonium vulgare*	Common Sea-lavender	**4**		
Brancaster (North) N1C7	*Puccinellia maritima*	Common Saltmarsh-grass	**5**		
Brancaster (North) N1C7	*Salicornia europaea* agg.	Common Glasswort	**7**		
Brancaster (North) N1C7	*Triglochin maritimum*	Sea Arrowgrass	**4**		

Brancaster (South) N1C7

Site Name	Scientific Name	Common Name	Domin	Sample ID	NVC Type
Brancaster (South) N1C7	*Arrhenatherum elatius*	False Oat-grass	**4**	Q013	S21
Brancaster (South) N1C7	*Bolboschoenus maritimus*	Sea Club-rush	**10**		
Brancaster (South) N1C7	*Carex rostrata*	Bottle Sedge	**2**		
Brancaster (South) N1C7	*Elytrigia repens*	Common Couch	**3**		
Brancaster (South) N1C7	*Galium aparine*	Cleavers	**2**		
Brancaster (South) N1C7	*Rumex crispus*	Curled Dock	**1**		
Brancaster (South) N1C7	*Sonchus arvensis*	Perennial Sow-thistle	**4**		
Brancaster (South) N1C7	*Urtica dioca*	Common Nettle	**2**		

Site Name	Scientific Name	Common Name	Domin	Sample ID	NVC Type
Brancaster (South) N1C7	*Aster tripolium (Rayless)*	Rayless Sea Aster	**4**	Q014	SM18a
Brancaster (South) N1C7	*Bolboschoenus maritimus*	Sea Club-rush	**1**		
Brancaster (South) N1C7	*Festuca rubra*	Red Fescue	**5**		
Brancaster (South) N1C7	*Glaux maritima*	Sea-milkwort	**1**		
Brancaster (South) N1C7	*Juncus gerardii*	Saltmarsh Rush	**2**		
Brancaster (South) N1C7	*Juncus maritimus*	Sea Rush	**7**		
Brancaster (South) N1C7	*Limonium vulgare*	Common Sea-lavender	**3**		
Brancaster (South) N1C7	*Plantago maritima*	Sea Plantain	**5**		
Brancaster (South) N1C7	*Triglochin maritimum*	Sea Arrowgrass	**3**		
Brancaster (South) N1C7	*Armeria maritima*	Thrift	**5**	Q015	SM14b
Brancaster (South) N1C7	*Aster tripolium (Rayless)*	Rayless Sea Aster	**5**		
Brancaster (South) N1C7	*Atriplex portulacoides*	Sea-purslane	**4**		
Brancaster (South) N1C7	*Juncus maritimus*	Sea Rush	**7**		
Brancaster (South) N1C7	*Limonium humile*	Lax-flowered Sea-lavender	**1**		
Brancaster (South) N1C7	*Limonium vulgare*	Common Sea-lavender	**4**		
Brancaster (South) N1C7	*Puccinellia maritima*	Common Saltmarsh-grass	**6**		
Brancaster (South) N1C7	*Salicornia europaea* agg.	Common Glasswort	**6**		
Brancaster (South) N1C7	*Spartina anglica*	Common Cord-grass	**4**		
Brancaster (South) N1C7	*Suaeda maritima*	Annual Sea-blite	**2**		

Site Name	Scientific Name	Common Name	Domin	Sample ID	NVC Type
Brancaster (South) N1C7	*Aster tripolium (Rayless)*	Rayless Sea Aster	**4**	Q016	SM14b
Brancaster (South) N1C7	*Atriplex portulacoides*	Sea-purslane	**2**		
Brancaster (South) N1C7	*Juncus maritimus*	Sea Rush	**9**		
Brancaster (South) N1C7	*Limonium vulgare*	Common Sea-lavender	**2**		
Brancaster (South) N1C7	*Puccinellia maritima*	Common Saltmarsh-grass	**5**		
Brancaster (South) N1C7	*Spartina anglica*	Common Cord-grass	**2**		
Brancaster (South) N1C7	*Aster tripolium (Rayless)*	Rayless Sea Aster	**1**	Q017	SM14b
Brancaster (South) N1C7	*Atriplex portulacoides*	Sea-purslane	**4**		
Brancaster (South) N1C7	*Juncus maritimus*	Sea Rush	**8**		
Brancaster (South) N1C7	*Limonium vulgare*	Common Sea-lavender	**2**		
Brancaster (South) N1C7	*Plantago maritima*	Sea Plantain	**4**		
Brancaster (South) N1C7	*Puccinellia maritima*	Common Saltmarsh-grass	**4**		
Brancaster (South) N1C7	*Triglochin maritimum*	Sea Arrowgrass	**4**		
Brancaster (South) N1C7	*Aster tripolium (Rayless)*	Rayless Sea Aster	**3**	Q018	SM14b
Brancaster (South) N1C7	*Atriplex portulacoides*	Sea-purslane	**4**		
Brancaster (South) N1C7	*Juncus maritimus*	Sea Rush	**7**		
Brancaster (South) N1C7	*Limonium humile*	Lax-flowered Sea-lavender	**3**		
Brancaster (South) N1C7	*Puccinellia maritima*	Common Saltmarsh-grass	**6**		
Brancaster (South) N1C7	*Salicornia europaea* agg.	Common Glasswort	**2**		
Brancaster (South) N1C7	*Spartina anglica*	Common Cord-grass	**4**		
Brancaster (South) N1C7	*Suaeda maritima*	Annual Sea-blite	**3**		

Site Name	Scientific Name	Common Name	Domin	Sample ID	NVC Type
Brancaster (South) N1C7	*Aster tripolium (Rayless)*	Rayless Sea Aster	**3**	Q019	SM14b
Brancaster (South) N1C7	*Atriplex portulacoides*	Sea-purslane	**2**		
Brancaster (South) N1C7	*Juncus maritimus*	Sea Rush	**5**		
Brancaster (South) N1C7	*Limonium humile*	Lax-flowered Sea-lavender	**2**		
Brancaster (South) N1C7	*Limonium vulgare*	Common Sea-lavender	**4**		
Brancaster (South) N1C7	*Plantago maritima*	Sea Plantain	**4**		
Brancaster (South) N1C7	*Puccinellia maritima*	Common Saltmarsh-grass	**7**		
Brancaster (South) N1C7	*Salicornia europaea* agg.	Common Glasswort	**3**		
Brancaster (South) N1C7	*Spartina anglica*	Common Cord-grass	**3**		
Brancaster (South) N1C7	*Suaeda maritima*	Annual Sea-blite	**3**		
Brancaster (South) N1C7	*Armeria maritima*	Thrift	**5**	Q020	SM13c
Brancaster (South) N1C7	*Aster tripolium (Rayless)*	Rayless Sea Aster	**2**		
Brancaster (South) N1C7	*Atriplex portulacoides*	Sea-purslane	**5**		
Brancaster (South) N1C7	*Limonium binervosum*	Rock Sea-lavender	**2**		
Brancaster (South) N1C7	*Limonium humile*	Lax-flowered Sea-lavender	**5**		
Brancaster (South) N1C7	*Limonium vulgare*	Common Sea-lavender	**7**		
Brancaster (South) N1C7	*Puccinellia maritima*	Common Saltmarsh-grass	**5**		
Brancaster (South) N1C7	*Salicornia europaea* agg.	Common Glasswort	**8**		
Brancaster (South) N1C7	*Spergularia media*	Greater Sea-spurrey	**2**		
Brancaster (South) N1C7	*Suaeda maritima*	Annual Sea-blite	**2**		
Brancaster (South) N1C7	*Triglochin maritimum*	Sea Arrowgrass	**3**		

Site Name	Scientific Name	Common Name	Domin	Sample ID	NVC Type
Brancaster (South) N1C7	*Aster tripolium (Rayless)*	Rayless Sea Aster	**7**	Q021	SM11/SM 14c
Brancaster (South) N1C7	*Atriplex portulacoides*	Sea-purslane	**4**		
Brancaster (South) N1C7	*Puccinellia maritima*	Common Saltmarsh-grass	**6**		
Brancaster (South) N1C7	*Salicornia europaea* agg.	Common Glasswort	**6**		
Brancaster (South) N1C7	*Spartina anglica*	Common Cord-grass	**4**		
Brancaster (South) N1C7	*Suaeda maritima*	Annual Sea-blite	**7**		

Burnham N1A1

Site Name	Scientific Name	Common Name	Domin	Sample ID	NVC Type
Burnham N1A1	*Algal Mat*	Algal Mat	**9**	Q022	SM6
Burnham N1A1	*Aster tripolium (Rayless)*	Rayless Sea Aster	**7**		
Burnham N1A1	*Puccinellia maritima*	Common Saltmarsh-grass	**5**		
Burnham N1A1	*Salicornia europaea* agg.	Common Glasswort	**8**		
Burnham N1A1	*Spartina anglica*	Common Cord-grass	**8**		
Burnham N1A1	*Aster tripolium (Rayless)*	Rayless Sea Aster	**4**	Q023	SM14a
Burnham N1A1	*Atriplex portulacoides*	Sea-purslane	**9**		
Burnham N1A1	*Limonium vulgare*	Common Sea-lavender	**4**		
Burnham N1A1	*Puccinellia maritima*	Common Saltmarsh-grass	**4**		
Burnham N1A1	*Suaeda maritima*	Annual Sea-blite	**4**		
Burnham N1A1	*Aster tripolium (Rayless)*	Rayless Sea Aster	**3**	Q024	SM14c
Burnham N1A1	*Atriplex portulacoides*	Sea-purslane	**8**		
Burnham N1A1	*Limonium vulgare*	Common Sea-lavender	**5**		
Burnham N1A1	*Puccinellia maritima*	Common Saltmarsh-grass	**7**		
Burnham N1A1	*Triglochin maritimum*	Sea Arrowgrass	**3**		

Site Name	Scientific Name	Common Name	Domin	Sample ID	NVC Type
Burnham N1A1	*Aster tripolium (Rayless)*	Rayless Sea Aster	**3**	Q025	SM14a
Burnham N1A1	*Atriplex portulacoides*	Sea-purslane	**9**		
Burnham N1A1	*Limonium vulgare*	Common Sea-lavender	**4**		
Burnham N1A1	*Puccinellia maritima*	Common Saltmarsh-grass	**4**		
Burnham N1A1	*Salicornia europaea* agg.	Common Glasswort	**4**		
Burnham N1A1	*Suaeda maritima*	Annual Sea-blite	**5**		
Burnham N1A1	*Triglochin maritimum*	Sea Arrowgrass	**4**		
Burnham N1A1	*Aster tripolium (Rayless)*	Rayless Sea Aster	**4**	Q026	SM14a
Burnham N1A1	*Atriplex portulacoides*	Sea-purslane	**8**		
Burnham N1A1	*Limonium vulgare*	Common Sea-lavender	**4**		
Burnham N1A1	*Puccinellia maritima*	Common Saltmarsh-grass	**5**		
Burnham N1A1	*Seriphidium maritimum*	Sea Wormwood	**7**		
Burnham N1A1	*Suaeda maritima*	Annual Sea-blite	**4**		
Burnham N1A1	*Suaeda vera*	Shrubby Sea-blite	**4**		
Burnham N1A1	*Aster tripolium (Rayless)*	Rayless Sea Aster	**3**	Q027	SM25
Burnham N1A1	*Atriplex portulacoides*	Sea-purslane	**4**		
Burnham N1A1	*Elytrigia repens*	Common Couch	**8**		
Burnham N1A1	*Suaeda vera*	Shrubby Sea-blite	**7**		

Site Name	Scientific Name	Common Name	Domin	Sample ID	NVC Type
Burnham N1A1	*Armeria maritima*	Thrift	**5**	Q028	SM14c
Burnham N1A1	*Aster tripolium (Rayless)*	Rayless Sea Aster	**5**		
Burnham N1A1	*Atriplex portulacoides*	Sea-purslane	**6**		
Burnham N1A1	*Limonium vulgare*	Common Sea-lavender	**8**		
Burnham N1A1	*Plantago maritima*	Sea Plantain	**6**		
Burnham N1A1	*Puccinellia maritima*	Common Saltmarsh-grass	**4**		
Burnham N1A1	*Suaeda maritima*	Annual Sea-blite	**4**		
Burnham N1A1	*Triglochin maritimum*	Sea Arrowgrass	**4**		
Burnham N1A1	*Aster tripolium (Rayless)*	Rayless Sea Aster	**2**	Q029	SM14c
Burnham N1A1	*Atriplex portulacoides*	Sea-purslane	**5**		
Burnham N1A1	*Limonium binervosum*	Rock Sea-lavender	**3**		
Burnham N1A1	*Limonium vulgare*	Common Sea-lavender	**8**		
Burnham N1A1	*Puccinellia maritima*	Common Saltmarsh-grass	**5**		
Burnham N1A1	*Salicornia europaea* agg.	Common Glasswort	**3**		
Burnham N1A1	*Spergularia media*	Greater Sea-spurrey	**1**		
Burnham N1A1	*Suaeda maritima*	Annual Sea-blite	**2**		
Burnham N1A1	*Triglochin maritimum*	Sea Arrowgrass	**5**		
Burnham N1A1	*Algal Mat*		**5**	Q030	SM14a
Burnham N1A1	*Aster tripolium (Rayless)*	Rayless Sea Aster	**4**		
Burnham N1A1	*Atriplex portulacoides*	Sea-purslane	**9**		
Burnham N1A1	*Limonium vulgare*	Common Sea-lavender	**4**		
Burnham N1A1	*Puccinellia maritima*	Common Saltmarsh-grass	**4**		
Burnham N1A1	*Seriphidium maritimum*	Sea Wormwood	**4**		
Burnham N1A1	*Suaeda maritima*	Annual Sea-blite	**3**		

Site Name	Scientific Name	Common Name	Domin	Sample ID	NVC Type
Burnham N1A1	*Aster tripolium (Rayless)*	Rayless Sea Aster	**3**	Q031	SM14a
Burnham N1A1	*Atriplex portulacoides*	Sea-purslane	**10**		
Burnham N1A1	*Limonium vulgare*	Common Sea-lavender	**4**		
Burnham N1A1	*Plantago maritima*	Sea Plantain	**4**		
Burnham N1A1	*Puccinellia maritima*	Common Saltmarsh-grass	**3**		
Burnham N1A1	*Suaeda maritima*	Annual Sea-blite	**3**		
Burnham N1A1	*Armeria maritima*	Thrift	**4**	Q032	SM13c
Burnham N1A1	*Atriplex portulacoides*	Sea-purslane	**5**		
Burnham N1A1	*Limonium vulgare*	Common Sea-lavender	**7**		
Burnham N1A1	*Puccinellia maritima*	Common Saltmarsh-grass	**6**		
Burnham N1A1	*Salicornia europaea* agg.	Common Glasswort	**7**		
Burnham N1A1	*Suaeda maritima*	Annual Sea-blite	**3**		
Burnham N1A1	*Triglochin maritimum*	Sea Arrowgrass	**5**		
Burnham N1A1	*Armeria maritima*	Thrift	**7**	Q033	SM13c
Burnham N1A1	*Atriplex portulacoides*	Sea-purslane	**3**		
Burnham N1A1	*Limonium vulgare*	Common Sea-lavender	**8**		
Burnham N1A1	*Plantago maritima*	Sea Plantain	**5**		
Burnham N1A1	*Puccinellia maritima*	Common Saltmarsh-grass	**5**		
Burnham N1A1	*Salicornia europaea* agg.	Common Glasswort	**5**		
Burnham N1A1	*Suaeda maritima*	Annual Sea-blite	**2**		
Burnham N1A1	*Triglochin maritimum*	Sea Arrowgrass	**4**		

Site Name	Scientific Name	Common Name	Domin	Sample ID	NVC Type
Burnham N1A1	*Aster tripolium (Rayless)*	Rayless Sea Aster	**4**	Q034	SM14c
Burnham N1A1	*Atriplex portulacoides*	Sea-purslane	**8**		
Burnham N1A1	*Limonium vulgare*	Common Sea-lavender	**5**		
Burnham N1A1	*Puccinellia maritima*	Common Saltmarsh-grass	**5**		
Burnham N1A1	*Salicornia europaea* agg.	Common Glasswort	**4**		
Burnham N1A1	*Suaeda maritima*	Annual Sea-blite	**3**		
Burnham N1A1	*Triglochin maritimum*	Sea Arrowgrass	**4**		
Burnham N1A1	*Aster tripolium (Rayless)*	Rayless Sea Aster	**3**	Q035	SM14a
Burnham N1A1	*Atriplex portulacoides*	Sea-purslane	**9**		
Burnham N1A1	*Limonium vulgare*	Common Sea-lavender	**4**		
Burnham N1A1	*Puccinellia maritima*	Common Saltmarsh-grass	**3**		
Burnham N1A1	*Salicornia europaea* agg.	Common Glasswort	**4**		
Burnham N1A1	*Spartina anglica*	Common Cord-grass	**11**		
Burnham N1A1	*Suaeda maritima*	Annual Sea-blite	**4**		
Burnham N1A1	*Algal Mat*		**9**	Q036	SM8
Burnham N1A1	*Limonium humile*	Lax-flowered Sea-lavender	**4**		
Burnham N1A1	*Salicornia europaea* agg.	Common Glasswort	**9**		
Burnham N1A1	*Spartina anglica*	Common Cord-grass	**11**		
Burnham N1A1	*Suaeda maritima*	Annual Sea-blite	**6**		

Site Name	Scientific Name	Common Name	Domin	Sample ID	NVC Type
Burnham N1A1	*Atriplex portulacoides*	Sea-purslane	**7**	Q037	SM9
Burnham N1A1	*Limonium humile*	Lax-flowered Sea-lavender	**4**		
Burnham N1A1	*Salicornia europaea* agg.	Common Glasswort	**4**		
Burnham N1A1	*Suaeda maritima*	Annual Sea-blite	**8**		
Burnham N1A1	*Algal Mat*	Algal Mat	**7**	Q038	SM9
Burnham N1A1	*Salicornia europaea* agg.	Common Glasswort	**5**		
Burnham N1A1	*Suaeda maritima*	Annual Sea-blite	**9**		
Burnham N1A1	*Limonium vulgare*	Common Sea-lavender	**4**	Q039	SM25 + SM9
Burnham N1A1	*Salicornia europaea* agg.	Common Glasswort	**5**		
Burnham N1A1	*Suaeda maritima*	Annual Sea-blite	**8**		
Burnham N1A1	*Suaeda vera*	Shrubby Sea-blite	**7**		

Burnham and Scolt Head N1B3

Site Name	Scientific Name	Common Name	Domin	Sample ID	NVC Type
Burnham and Scolt Head N1B3	*Atriplex portulacoides*	Sea-purslane	**7**	Q040	SM25
Burnham and Scolt Head N1B3	*Atriplex prostrata*	Spear-leaved Orache	**1**		
Burnham and Scolt Head N1B3	*Elytrigia repens*	Common Couch	**7**		
Burnham and Scolt Head N1B3	*Suaeda vera*	Shrubby Sea-blite	**9**		

Site Name	Scientific Name	Common Name	Domin	Sample ID	NVC Type
Burnham and Scolt Head N1B3	*Aster tripolium (Rayless)*	Rayless Sea Aster	**4**	Q041	SM25
Burnham and Scolt Head N1B3	*Atriplex portulacoides*	Sea-purslane	**7**		
Burnham and Scolt Head N1B3	*Suaeda maritima*	Annual Sea-blite	**4**		
Burnham and Scolt Head N1B3	*Suaeda vera*	Shrubby Sea-blite	**9**		
Burnham and Scolt Head N1B3	*Armeria maritima*	Thrift	**5**	Q042	SM14c
Burnham and Scolt Head N1B3	*Aster tripolium (Rayless)*	Rayless Sea Aster	**3**		
Burnham and Scolt Head N1B3	*Atriplex portulacoides*	Sea-purslane	**5**		
Burnham and Scolt Head N1B3	*Limonium vulgare*	Common Sea-lavender	**8**		
Burnham and Scolt Head N1B3	*Puccinellia maritima*	Common Saltmarsh-grass	**8**		
Burnham and Scolt Head N1B3	*Salicornia europaea* agg.	Common Glasswort	**3**		
Burnham and Scolt Head N1B3	*Triglochin maritimum*	Sea Arrowgrass	**7**		

Site Name	Scientific Name	Common Name	Domin	Sample ID	NVC Type
Burnham and Scolt Head N1B3	*Armeria maritima*	Thrift	**3**	Q043	SM14a
Burnham and Scolt Head N1B3	*Aster tripolium (Rayless)*	Rayless Sea Aster	**3**		
Burnham and Scolt Head N1B3	*Atriplex portulacoides*	Sea-purslane	**8**		
Burnham and Scolt Head N1B3	*Limonium vulgare*	Common Sea-lavender	**7**		
Burnham and Scolt Head N1B3	*Puccinellia maritima*	Common Saltmarsh-grass	**7**		
Burnham and Scolt Head N1B3	*Salicornia europaea* agg.	Common Glasswort	**3**		
Burnham and Scolt Head N1B3	*Triglochin maritimum*	Sea Arrowgrass	**3**		
Burnham and Scolt Head N1B3	*Atriplex portulacoides*	Sea-purslane	**10**	Q044	SM14a
Burnham and Scolt Head N1B3	*Puccinellia maritima*	Common Saltmarsh-grass	**4**		
Burnham and Scolt Head N1B3	*Suaeda maritima*	Annual Sea-blite	**4**		
Burnham and Scolt Head N1B3	*Aster tripolium (Rayless)*	Rayless Sea Aster	**5**	Q045	SM14c
Burnham and Scolt Head N1B3	*Atriplex portulacoides*	Sea-purslane	**7**		
Burnham and Scolt Head N1B3	*Limonium vulgare*	Common Sea-lavender	**4**		
Burnham and Scolt Head N1B3	*Puccinellia maritima*	Common Saltmarsh-grass	**8**		
Burnham and Scolt Head N1B3	*Suaeda maritima*	Annual Sea-blite	**5**		

Site Name	Scientific Name	Common Name	Domin	Sample ID	NVC Type
Burnham and Scolt Head N1B3	*Aster tripolium (Rayless)*	Rayless Sea Aster	**4**	Q046	SM14a
Burnham and Scolt Head N1B3	*Atriplex portulacoides*	Sea-purslane	**8**		
Burnham and Scolt Head N1B3	*Limonium vulgare*	Common Sea-lavender	**6**		
Burnham and Scolt Head N1B3	*Puccinellia maritima*	Common Saltmarsh-grass	**5**		
Burnham and Scolt Head N1B3	*Salicornia europaea* agg.	Common Glasswort	**3**		
Burnham and Scolt Head N1B3	*Spartina anglica*	Common Cord-grass	**5**		
Burnham and Scolt Head N1B3	*Suaeda maritima*	Annual Sea-blite	**6**		
Burnham and Scolt Head N1B3	*Aster tripolium (Rayless)*	Rayless Sea Aster	**5**	Q047	SM13c
Burnham and Scolt Head N1B3	*Atriplex portulacoides*	Sea-purslane	**6**		
Burnham and Scolt Head N1B3	*Limonium vulgare*	Common Sea-lavender	**7**		
Burnham and Scolt Head N1B3	*Puccinellia maritima*	Common Saltmarsh-grass	**7**		
Burnham and Scolt Head N1B3	*Salicornia europaea* agg.	Common Glasswort	**4**		
Burnham and Scolt Head N1B3	*Spartina maritima*	Small Cord-grass	**3**		
Burnham and Scolt Head N1B3	*Suaeda maritima*	Annual Sea-blite	**2**		
Burnham and Scolt Head N1B3	*Triglochin maritimum*	Sea Arrowgrass	**7**		

Site Name	Scientific Name	Common Name	Domin	Sample ID	NVC Type
Burnham and Scolt Head N1B3	*Atriplex portulacoides*	Sea-purslane	**4**	Q048	SM13c
Burnham and Scolt Head N1B3	*Limonium vulgare*	Common Sea-lavender	**8**		
Burnham and Scolt Head N1B3	*Puccinellia maritima*	Common Saltmarsh-grass	**5**		
Burnham and Scolt Head N1B3	*Salicornia europaea* agg.	Common Glasswort	**9**		
Burnham and Scolt Head N1B3	*Triglochin maritimum*	Sea Arrowgrass	**5**		
Burnham and Scolt Head N1B3	*Aster tripolium (Rayless)*	Rayless Sea Aster	**2**	Q049	SM13c
Burnham and Scolt Head N1B3	*Atriplex portulacoides*	Sea-purslane	**4**		
Burnham and Scolt Head N1B3	*Limonium vulgare*	Common Sea-lavender	**8**		
Burnham and Scolt Head N1B3	*Puccinellia maritima*	Common Saltmarsh-grass	**4**		
Burnham and Scolt Head N1B3	*Salicornia europaea* agg.	Common Glasswort	**7**		
Burnham and Scolt Head N1B3	*Spartina anglica*	Common Cord-grass	**3**		
Burnham and Scolt Head N1B3	*Triglochin maritimum*	Sea Arrowgrass	**7**		

Site Name	Scientific Name	Common Name	Domin	Sample ID	NVC Type
Burnham and Scolt Head N1B3	*Aster tripolium (Rayless)*	Rayless Sea Aster	**8**	Q050	SM11
Burnham and Scolt Head N1B3	*Atriplex portulacoides*	Sea-purslane	**7**		
Burnham and Scolt Head N1B3	*Puccinellia maritima*	Common Saltmarsh-grass	**4**		
Burnham and Scolt Head N1B3	*Salicornia europaea* agg.	Common Glasswort	**7**		
Burnham and Scolt Head N1B3	*Spartina anglica*	Common Cord-grass	**4**		
Burnham and Scolt Head N1B3	*Suaeda maritima*	Annual Sea-blite	**4**		
Burnham and Scolt Head N1B3	*Aster tripolium (Rayless)*	Rayless Sea Aster	**4**	Q051	SM9
Burnham and Scolt Head N1B3	*Atriplex portulacoides*	Sea-purslane	**4**		
Burnham and Scolt Head N1B3	*Limonium vulgare*	Common Sea-lavender	**11**		
Burnham and Scolt Head N1B3	*Salicornia europaea* agg.	Common Glasswort	**6**		
Burnham and Scolt Head N1B3	*Suaeda maritima*	Annual Sea-blite	**7**		

Site Name	Scientific Name	Common Name	Domin	Sample ID	NVC Type
Burnham and Scolt Head N1B3	*Atriplex portulacoides*	Sea-purslane	**1**	Q052	SM25
Burnham and Scolt Head N1B3	*Cochlearia officinalis*	Common Scurvygrass	**2**		
Burnham and Scolt Head N1B3	*Limonium vulgare*	Common Sea-lavender	**2**		
Burnham and Scolt Head N1B3	*Plantago maritima*	Sea Plantain	**2**		
Burnham and Scolt Head N1B3	*Suaeda vera*	Shrubby Sea-blite	**10**		
Burnham and Scolt Head N1B3	*Ammophila arenaria*	Marram	**5**	Q053	SM28
Burnham and Scolt Head N1B3	*Arrhenatherum elatius*	False Oat-grass	**8**		
Burnham and Scolt Head N1B3	*Elytrigia repens*	Common Couch	**8**		
Burnham and Scolt Head N1B3	*Rumex crispus*	Curled Dock	**2**		
Burnham and Scolt Head N1B3	*Atriplex portulacoides*	Sea-purslane	**6**	Q054	SM25
Burnham and Scolt Head N1B3	*Elytrigia repens*	Common Couch	**6**		
Burnham and Scolt Head N1B3	*Suaeda vera*	Shrubby Sea-blite	**9**		

Site Name	Scientific Name	Common Name	Domin	Sample ID	NVC Type
Burnham and Scolt Head N1B3	*Aster tripolium (Rayless)*	Rayless Sea Aster	**4**	Q055	SM14b
Burnham and Scolt Head N1B3	*Atriplex portulacoides*	Sea-purslane	**4**		
Burnham and Scolt Head N1B3	*Elytrigia repens*	Common Couch	**3**		
Burnham and Scolt Head N1B3	*Juncus maritimus*	Sea Rush	**5**		
Burnham and Scolt Head N1B3	*Limonium vulgare*	Common Sea-lavender	**6**		
Burnham and Scolt Head N1B3	*Salicornia europaea* agg.	Common Glasswort	**3**		
Burnham and Scolt Head N1B3	*Spartina anglica*	Common Cord-grass	**4**		
Burnham and Scolt Head N1B3	*Suaeda maritima*	Annual Sea-blite	**5**		
Burnham and Scolt Head N1B3	*Suaeda vera*	Shrubby Sea-blite	**4**		
Burnham and Scolt Head N1B3	*Atriplex portulacoides*	Sea-purslane	**9**	Q056	SM14a
Burnham and Scolt Head N1B3	*Puccinellia maritima*	Common Saltmarsh-grass	**5**		
Burnham and Scolt Head N1B3	*Spartina anglica*	Common Cord-grass	**2**		
Burnham and Scolt Head N1B3	*Suaeda maritima*	Annual Sea-blite	**3**		

Site Name	Scientific Name	Common Name	Domin	Sample ID	NVC Type
Burnham and Scolt Head N1B3	*Aster tripolium (Rayless)*	Rayless Sea Aster	**1**	Q057	SM14c
Burnham and Scolt Head N1B3	*Atriplex portulacoides*	Sea-purslane	**7**		
Burnham and Scolt Head N1B3	*Limonium vulgare*	Common Sea-lavender	**4**		
Burnham and Scolt Head N1B3	*Puccinellia maritima*	Common Saltmarsh-grass	**8**		
Burnham and Scolt Head N1B3	*Seriphidium maritimum*	Sea Wormwood	**3**		
Burnham and Scolt Head N1B3	*Suaeda maritima*	Annual Sea-blite	**5**		
Burnham and Scolt Head N1B3	*Triglochin maritimum*	Sea Arrowgrass	**3**		
Burnham and Scolt Head N1B3	*Atriplex portulacoides*	Sea-purslane	**7**	Q058	SM14b
Burnham and Scolt Head N1B3	*Juncus maritimus*	Sea Rush	**5**		
Burnham and Scolt Head N1B3	*Limonium vulgare*	Common Sea-lavender	**4**		
Burnham and Scolt Head N1B3	*Puccinellia maritima*	Common Saltmarsh-grass	**9**		
Burnham and Scolt Head N1B3	*Suaeda maritima*	Annual Sea-blite	**2**		
Burnham and Scolt Head N1B3	*Suaeda vera*	Shrubby Sea-blite	**11**		

Site Name	Scientific Name	Common Name	Domin	Sample ID	NVC Type
Burnham and Scolt Head N1B3	*Atriplex portulacoides*	Sea-purslane	**9**	Q059	SM14a
Burnham and Scolt Head N1B3	*Limonium vulgare*	Common Sea-lavender	**3**		
Burnham and Scolt Head N1B3	*Puccinellia maritima*	Common Saltmarsh-grass	**5**		
Burnham and Scolt Head N1B3	*Seriphidium maritimum*	Sea Wormwood	**3**		
Burnham and Scolt Head N1B3	*Suaeda maritima*	Annual Sea-blite	**5**		
Burnham and Scolt Head N1B3	*Armeria maritima*	Thrift	**5**	Q060	SM13c
Burnham and Scolt Head N1B3	*Limonium vulgare*	Common Sea-lavender	**6**		
Burnham and Scolt Head N1B3	*Plantago maritima*	Sea Plantain	**7**		
Burnham and Scolt Head N1B3	*Puccinellia maritima*	Common Saltmarsh-grass	**5**		
Burnham and Scolt Head N1B3	*Salicornia europaea* agg.	Common Glasswort	**4**		
Burnham and Scolt Head N1B3	*Triglochin maritimum*	Sea Arrowgrass	**5**		

Site Name	Scientific Name	Common Name	Domin	Sample ID	NVC Type
Burnham and Scolt Head N1B3	*Armeria maritima*	Thrift	**4**	Q061	SM13c
Burnham and Scolt Head N1B3	*Limonium vulgare*	Common Sea-lavender	**6**		
Burnham and Scolt Head N1B3	*Plantago maritima*	Sea Plantain	**7**		
Burnham and Scolt Head N1B3	*Puccinellia maritima*	Common Saltmarsh-grass	**5**		
Burnham and Scolt Head N1B3	*Salicornia europaea* agg.	Common Glasswort	**6**		
Burnham and Scolt Head N1B3	*Triglochin maritimum*	Sea Arrowgrass	**4**		
Burnham and Scolt Head N1B3	*Aster tripolium (Rayless)*	Rayless Sea Aster	**3**	Q062	SM14c
Burnham and Scolt Head N1B3	*Atriplex portulacoides*	Sea-purslane	**6**		
Burnham and Scolt Head N1B3	*Limonium vulgare*	Common Sea-lavender	**5**		
Burnham and Scolt Head N1B3	*Puccinellia maritima*	Common Saltmarsh-grass	**8**		
Burnham and Scolt Head N1B3	*Suaeda maritima*	Annual Sea-blite	**4**		
Burnham and Scolt Head N1B3	*Triglochin maritimum*	Sea Arrowgrass	**5**		

Site Name	Scientific Name	Common Name	Domin	Sample ID	NVC Type
Burnham and Scolt Head N1B3	*Armeria maritima*	Thrift	**4**	Q063	SM13c
Burnham and Scolt Head N1B3	*Limonium vulgare*	Common Sea-lavender	**8**		
Burnham and Scolt Head N1B3	*Plantago maritima*	Sea Plantain	**4**		
Burnham and Scolt Head N1B3	*Puccinellia maritima*	Common Saltmarsh-grass	**4**		
Burnham and Scolt Head N1B3	*Salicornia europaea* agg.	Common Glasswort	**3**		
Burnham and Scolt Head N1B3	*Triglochin maritimum*	Sea Arrowgrass	**4**		
Burnham and Scolt Head N1B3	*Aster tripolium (Rayless)*	Rayless Sea Aster	**7**	Q064	SM11
Burnham and Scolt Head N1B3	*Puccinellia maritima*	Common Saltmarsh-grass	**6**		
Burnham and Scolt Head N1B3	*Salicornia europaea* agg.	Common Glasswort	**4**		
Burnham and Scolt Head N1B3	*Spartina anglica*	Common Cord-grass	**5**		
Burnham and Scolt Head N1B3	*Suaeda maritima*	Annual Sea-blite	**3**		
Burnham and Scolt Head N1B3	*Atriplex portulacoides*	Sea-purslane	**3**	Q065	SM28
Burnham and Scolt Head N1B3	*Elytrigia repens*	Common Couch	**10**		
Burnham and Scolt Head N1B3	*Rumex crispus*	Curled Dock	**2**		
Burnham and Scolt Head N1B3	*Suaeda vera*	Shrubby Sea-blite	**5**		

Holme N1D6A

Site Name	Scientific Name	Common Name	Domin	Sample ID	NVC Type
Holme N1D6A	*Elytrigia repens*	Common Couch	**4**	Q066	SM25
Holme N1D6A	*Suaeda vera*	Shrubby Sea-blite	**10**		
Holme N1D6A	*Atriplex portulacoides*	Sea-purslane	**3**	Q067a	SM8
Holme N1D6A	*Limonium vulgare*	Common Sea-lavender	**1**		
Holme N1D6A	*Salicornia europaea* agg.	Common Glasswort	**8**		
Holme N1D6A	*Spartina anglica*	Common Cord-grass	**2**		
Holme N1D6A	*Suaeda maritima*	Annual Sea-blite	**3**		
Holme N1D6A	*Atriplex portulacoides*	Sea-purslane	**10**	Q067b	SM14a
Holme N1D6A	*Limonium vulgare*	Common Sea-lavender	**3**		
Holme N1D6A	*Suaeda maritima*	Annual Sea-blite	**4**		
Holme N1D6A	*Atriplex portulacoides*	Sea-purslane	**6**	Q068	SM25
Holme N1D6A	*Elytrigia atherica*	Sea Couch	**4**		
Holme N1D6A	*Limonium bellidifolium*	Matted Sea-lavender	**0**		
Holme N1D6A	*Suaeda maritima*	Annual Sea-blite	**7**		
Holme N1D6A	*Suaeda vera*	Shrubby Sea-blite	**7**		
Holme N1D6A	*Atriplex portulacoides*	Sea-purslane	**4**	Q069	SM25
Holme N1D6A	*Bare Ground*	Bare Ground	**8**		
Holme N1D6A	*Elytrigia repens*	Common Couch	**3**		
Holme N1D6A	*Limonium bellidifolium*	Matted Sea-lavender	**7**		
Holme N1D6A	*Limonium binervosum*	Rock Sea-lavender	**4**		
Holme N1D6A	*Puccinellia maritima*	Common Saltmarsh-grass	**1**		
Holme N1D6A	*Suaeda maritima*	Annual Sea-blite	**4**		
Holme N1D6A	*Suaeda vera*	Shrubby Sea-blite	**4**		

Site Name	Scientific Name	Common Name	Domin	Sample ID	NVC Type
Holme N1D6A	*Atriplex portulacoides*	Sea-purslane	**4**	Q070	SM25
Holme N1D6A	*Bare Ground*	Bare Ground	**7**		
Holme N1D6A	*Elytrigia repens*	Common Couch	**2**		
Holme N1D6A	*Limonium bellidifolium*	Matted Sea-lavender	**6**		
Holme N1D6A	*Limonium binervosum*	Rock Sea-lavender	**7**		
Holme N1D6A	*Puccinellia maritima*	Common Saltmarsh-grass	**2**		
Holme N1D6A	*Suaeda maritima*	Annual Sea-blite	**5**		
Holme N1D6A	*Suaeda vera*	Shrubby Sea-blite	**5**		
Holme N1D6A	*Atriplex portulacoides*	Sea-purslane	**3**	Q071	SM21
Holme N1D6A	*Elytrigia repens*	Common Couch	**7**		
Holme N1D6A	*Limonium bellidifolium*	Matted Sea-lavender	**3**		
Holme N1D6A	*Suaeda vera*	Shrubby Sea-blite	**8**		
Holme N1D6A	*Elytrigia repens*	Common Couch	**10**	Q072	SM28
Holme N1D6A	*Euphorbia paralias*	Sea Spurge	**1**		
Holme N1D6A	*Limonium binervosum*	Rock Sea-lavender	**4**		
Holme N1D6A	*Sonchus oleraceus*	Smooth Sow-thistle	**3**		
Holme N1D6A	*Suaeda vera*	Shrubby Sea-blite	**3**		
Holme N1D6A	*Algal Mat*	Algal Mat	**5**	Q073	SM8
Holme N1D6A	*Salicornia europaea* agg.	Common Glasswort	**8**		
Holme N1D6A	*Spartina anglica*	Common Cord-grass	**3**		
Holme N1D6A	*Suaeda maritima*	Annual Sea-blite	**4**		

Site Name	Scientific Name	Common Name	Domin	Sample ID	NVC Type
Holme N1D6A	*165 and 166*		**0**	Q074	SM10
Holme N1D6A	*Atriplex portulacoides*	Sea-purslane	**4**		
Holme N1D6A	*Limonium bellidifolium*	Matted Sea-lavender	**4**		
Holme N1D6A	*Limonium vulgare*	Common Sea-lavender	**4**		
Holme N1D6A	*Puccinellia maritima*	Common Saltmarsh-grass	**8**		
Holme N1D6A	*Salicornia europaea* agg.	Common Glasswort	**7**		
Holme N1D6A	*Suaeda maritima*	Annual Sea-blite	**8**		
Holme N1D6A	*Atriplex portulacoides*	Sea-purslane	**4**	Q075	SM10
Holme N1D6A	*Limonium vulgare*	Common Sea-lavender	**5**		
Holme N1D6A	*Puccinellia maritima*	Common Saltmarsh-grass	**7**		
Holme N1D6A	*Salicornia europaea* agg.	Common Glasswort	**7**		
Holme N1D6A	*Spergularia media*	Greater Sea-spurrey	**5**		
Holme N1D6A	*Suaeda maritima*	Annual Sea-blite	**6**		
Holme N1D6A	*Atriplex portulacoides*	Sea-purslane	**4**	Q076	SM10
Holme N1D6A	*Limonium vulgare*	Common Sea-lavender	**1**		
Holme N1D6A	*Puccinellia maritima*	Common Saltmarsh-grass	**7**		
Holme N1D6A	*Salicornia europaea* agg.	Common Glasswort	**7**		
Holme N1D6A	*Suaeda maritima*	Annual Sea-blite	**6**		
Holme N1D6A	*Limonium vulgare*	Common Sea-lavender	**3**	Q077	SM10
Holme N1D6A	*Puccinellia maritima*	Common Saltmarsh-grass	**6**		
Holme N1D6A	*Salicornia europaea* agg.	Common Glasswort	**6**		
Holme N1D6A	*Spergularia media*	Greater Sea-spurrey	**3**		
Holme N1D6A	*Suaeda maritima*	Annual Sea-blite	**6**		

Site Name	Scientific Name	Common Name	Domin	Sample ID	NVC Type
Holme N1D6A	*Atriplex portulacoides*	Sea-purslane	**3**	Q078	SM10
Holme N1D6A	*Puccinellia maritima*	Common Saltmarsh-grass	**6**		
Holme N1D6A	*Salicornia europaea* agg.	Common Glasswort	**8**		
Holme N1D6A	*Suaeda maritima*	Annual Sea-blite	**8**		
Holme N1D6A	*Atriplex portulacoides*	Sea-purslane	**3**	Q079	SM9
Holme N1D6A	*Puccinellia maritima*	Common Saltmarsh-grass	**5**		
Holme N1D6A	*Spartina anglica*	Common Cord-grass	**1**		
Holme N1D6A	*Suaeda maritima*	Annual Sea-blite	**9**		
Holme N1D6A	*Atriplex portulacoides*	Sea-purslane	**4**	Q080	SM9
Holme N1D6A	*Limonium vulgare*	Common Sea-lavender	**1**		
Holme N1D6A	*Puccinellia maritima*	Common Saltmarsh-grass	**6**		
Holme N1D6A	*Suaeda maritima*	Annual Sea-blite	**8**		
Holme N1D6A	*Limonium vulgare*	Common Sea-lavender	**3**	Q081	SM8
Holme N1D6A	*Puccinellia maritima*	Common Saltmarsh-grass	**4**		
Holme N1D6A	*Salicornia europaea* agg.	Common Glasswort	**8**		
Holme N1D6A	*Suaeda maritima*	Annual Sea-blite	**4**		
Holme N1D6A	*Limonium vulgare*	Common Sea-lavender	**3**	Q082	SM8
Holme N1D6A	*Puccinellia maritima*	Common Saltmarsh-grass	**4**		
Holme N1D6A	*Salicornia europaea* agg.	Common Glasswort	**8**		
Holme N1D6A	*Suaeda maritima*	Annual Sea-blite	**4**		
Holme N1D6A	*Atriplex portulacoides*	Sea-purslane	**3**	Q083	SM8
Holme N1D6A	*Limonium bellidifolium*	Matted Sea-lavender	**3**		
Holme N1D6A	*Puccinellia maritima*	Common Saltmarsh-grass	**5**		
Holme N1D6A	*Salicornia europaea* agg.	Common Glasswort	**7**		
Holme N1D6A	*Suaeda maritima*	Annual Sea-blite	**2**		

Site Name	Scientific Name	Common Name	Domin	Sample ID	NVC Type
Holme N1D6A	*Atriplex portulacoides*	Sea-purslane	**3**	Q084	SM8
Holme N1D6A	*Puccinellia maritima*	Common Saltmarsh-grass	**4**		
Holme N1D6A	*Salicornia europaea* agg.	Common Glasswort	**8**		
Holme N1D6A	*Suaeda maritima*	Annual Sea-blite	**4**		
Holme N1D6A	*Limonium vulgare*	Common Sea-lavender	**7**	Q085	SM13a
Holme N1D6A	*Puccinellia maritima*	Common Saltmarsh-grass	**8**		
Holme N1D6A	*Suaeda maritima*	Annual Sea-blite	**6**		
Holme N1D6A	*Suaeda vera*	Shrubby Sea-blite	**4**		
Holme N1D6A	*Bare sand*	Bare sand	**7**	Q086	SM13a
Holme N1D6A	*Limonium vulgare*	Common Sea-lavender	**8**		
Holme N1D6A	*Puccinellia maritima*	Common Saltmarsh-grass	**5**		
Holme N1D6A	*Salicornia europaea* agg.	Common Glasswort	**1**		
Holme N1D6A	*Suaeda maritima*	Annual Sea-blite	**6**		
Holme N1D6A	*Bare sand*	Bare sand	**5**	Q087	SM25
Holme N1D6A	*Elytrigia repens*	Common Couch	**3**		
Holme N1D6A	*Limonium vulgare*	Common Sea-lavender	**3**		
Holme N1D6A	*Suaeda maritima*	Annual Sea-blite	**3**		
Holme N1D6A	*Suaeda vera*	Shrubby Sea-blite	**9**		
Holme N1D6A	*Bare ground*	Bare ground	**6**	Q088	SM13a
Holme N1D6A	*Limonium bellidifolium*	Matted Sea-lavender	**7**		
Holme N1D6A	*Limonium vulgare*	Common Sea-lavender	**6**		
Holme N1D6A	*Puccinellia maritima*	Common Saltmarsh-grass	**5**		
Holme N1D6A	*Salicornia europaea* agg.	Common Glasswort	**5**		
Holme N1D6A	*Suaeda maritima*	Annual Sea-blite	**5**		

Home N1C2

Site Name	*Scientific Name*	Common Name	Domin	Sample ID	NVC Type
Home N1C2	*Bare ground*	Bare ground	**9**	Q089	SM28
Home N1C2	*Elytrigia atherica*	Sea Couch	**5**		
Home N1C2	*Elytrigia repens*	Common Couch	**7**		
Home N1C2	*Limonium vulgare*	Common Sea-lavender	**4**		
Home N1C2	*Limonium vulgare*	Common Sea-lavender	**11**	Q090	SM13a
Home N1C2	*Puccinellia maritima*	Common Saltmarsh-grass	**8**		
Home N1C2	*Salicornia europaea* agg.	Common Glasswort	**4**		
Home N1C2	*Spergularia media*	Greater Sea-spurrey	**2**		
Home N1C2	*Suaeda maritima*	Annual Sea-blite	**1**		
Home N1C2	*Aster tripolium (Rayless)*	Rayless Sea Aster	**7**	Q091	SM11
Home N1C2	*Atriplex portulacoides*	Sea-purslane	**4**		
Home N1C2	*Limonium vulgare*	Common Sea-lavender	**4**		
Home N1C2	*Puccinellia maritima*	Common Saltmarsh-grass	**6**		
Home N1C2	*Salicornia europaea* agg.	Common Glasswort	**7**		
Home N1C2	*Suaeda maritima*	Annual Sea-blite	**5**		
Home N1C2	*Aster tripolium (Rayless)*	Rayless Sea Aster	**6**	Q092	SM11
Home N1C2	*Atriplex portulacoides*	Sea-purslane	**8**		
Home N1C2	*Limonium vulgare*	Common Sea-lavender	**8**		
Home N1C2	*Salicornia europaea* agg.	Common Glasswort	**7**		
Home N1C2	*Suaeda maritima*	Annual Sea-blite	**7**		
Home N1C2	*Aster tripolium (Rayless)*	Rayless Sea Aster	**4**	Q093	SM11
Home N1C2	*Atriplex portulacoides*	Sea-purslane	**7**		
Home N1C2	*Limonium vulgare*	Common Sea-lavender	**4**		
Home N1C2	*Puccinellia maritima*	Common Saltmarsh-grass	**8**		
Home N1C2	*Salicornia europaea* agg.	Common Glasswort	**4**		
Home N1C2	*Spartina anglica*	Common Cord-grass	**4**		
Home N1C2	*Suaeda maritima*	Annual Sea-blite	**4**		
Home N1C2	*Aster tripolium (Rayless)*	Rayless Sea Aster	**5**	Q094	SM11
Home N1C2	*Atriplex portulacoides*	Sea-purslane	**7**		
Home N1C2	*Limonium vulgare*	Common Sea-lavender	**4**		
Home N1C2	*Puccinellia maritima*	Common Saltmarsh-grass	**3**		
Home N1C2	*Salicornia europaea* agg.	Common Glasswort	**8**		
Home N1C2	*Suaeda maritima*	Annual Sea-blite	**8**		

Site Name	*Scientific Name*	Common Name	Domin	Sample ID	NVC Type
Home N1C2	*Aster tripolium (Rayless)*	Rayless Sea Aster	**5**	Q095	SM11
Home N1C2	*Atriplex portulacoides*	Sea-purslane	**5**		
Home N1C2	*Limonium vulgare*	Common Sea-lavender	**8**		
Home N1C2	*Puccinellia maritima*	Common Saltmarsh-grass	**3**		
Home N1C2	*Salicornia europaea* agg.	Common Glasswort	**8**		
Home N1C2	*Spartina anglica*	Common Cord-grass	**5**		
Home N1C2	*Suaeda maritima*	Annual Sea-blite	**5**		
Home N1C2	*Aster tripolium (Rayless)*	Rayless Sea Aster	**7**	Q096	SM11
Home N1C2	*Atriplex portulacoides*	Sea-purslane	**7**		
Home N1C2	*Limonium vulgare*	Common Sea-lavender	**7**		
Home N1C2	*Salicornia europaea* agg.	Common Glasswort	**9**		
Home N1C2	*Spartina anglica*	Common Cord-grass	**11**		
Home N1C2	*Suaeda maritima*	Annual Sea-blite	**4**		
Home N1C2	*Aster tripolium (Rayless)*	Rayless Sea Aster	**4**	Q097	SM9
Home N1C2	*Bare mud*	Bare mud	**8**		
Home N1C2	*Salicornia europaea* agg.	Common Glasswort	**5**		
Home N1C2	*Suaeda maritima*	Annual Sea-blite	**8**		
Home N1C2	*Atriplex portulacoides*	Sea-purslane	**10**	Q098	SM14a
Home N1C2	*Salicornia europaea* agg.	Common Glasswort	**4**		
Home N1C2	*Suaeda maritima*	Annual Sea-blite	**6**		
Home N1C2	*Aster tripolium (Rayless)*	Rayless Sea Aster	**7**	Q099	SM11
Home N1C2	*Atriplex portulacoides*	Sea-purslane	**5**		
Home N1C2	*Limonium vulgare*	Common Sea-lavender	**6**		
Home N1C2	*Puccinellia maritima*	Common Saltmarsh-grass	**7**		
Home N1C2	*Salicornia europaea* agg.	Common Glasswort	**7**		
Home N1C2	*Spartina anglica*	Common Cord-grass	**6**		
Home N1C2	*Suaeda maritima*	Annual Sea-blite	**5**		
Home N1C2	*Aster tripolium (Rayless)*	Rayless Sea Aster	**6**	Q100	SM11
Home N1C2	*Atriplex portulacoides*	Sea-purslane	**4**		
Home N1C2	*Limonium humile*	Lax-flowered Sea-lavender	**3**		
Home N1C2	*Limonium vulgare*	Common Sea-lavender	**5**		
Home N1C2	*Puccinellia maritima*	Common Saltmarsh-grass	**7**		
Home N1C2	*Spartina anglica*	Common Cord-grass	**8**		
Home N1C2	*Suaeda maritima*	Annual Sea-blite	**3**		
Home N1C2	*Triglochin maritimum*	Sea Arrowgrass	**3**		

Site Name	*Scientific Name*	Common Name	Domin	Sample ID	NVC Type
Home N1C2	*Aster tripolium (Rayless)*	Rayless Sea Aster	**4**	Q101	SM14c
Home N1C2	*Atriplex portulacoides*	Sea-purslane	**8**		
Home N1C2	*Limonium vulgare*	Common Sea-lavender	**4**		
Home N1C2	*Puccinellia maritima*	Common Saltmarsh-grass	**4**		
Home N1C2	*Spartina anglica*	Common Cord-grass	**3**		
Home N1C2	*Suaeda maritima*	Annual Sea-blite	**4**		
Home N1C2	*Triglochin maritimum*	Sea Arrowgrass	**8**		
Home N1C2	*Aster tripolium (Rayless)*	Rayless Sea Aster	**4**	Q102	SM14a
Home N1C2	*Atriplex portulacoides*	Sea-purslane	**9**		
Home N1C2	*Bare mud*	Bare mud	**6**		
Home N1C2	*Limonium vulgare*	Common Sea-lavender	**4**		
Home N1C2	*Puccinellia maritima*	Common Saltmarsh-grass	**4**		
Home N1C2	*Salicornia europaea* agg.	Common Glasswort	**5**		
Home N1C2	*Spartina anglica*	Common Cord-grass	**3**		
Home N1C2	*Bare mud*	Bare mud	**8**	Q103	SM9
Home N1C2	*Limonium vulgare*	Common Sea-lavender	**4**		
Home N1C2	*Salicornia europaea* agg.	Common Glasswort	**4**		
Home N1C2	*Spartina anglica*	Common Cord-grass	**3**		
Home N1C2	*Suaeda maritima*	Annual Sea-blite	**6**		
Home N1C2	*Bare mud*	Bare mud	**7**	Q104	SM6
Home N1C2	*Spartina anglica*	Common Cord-grass	**9**		

Holkham

Site Name	*Scientific Name*	Common Name	Domin	Sample ID	NVC Type
Holkham	*Bare sand*	Bare sand	**8**	Q105	SM13a
Holkham	*Plantago maritima*	Sea Plantain	**4**		
Holkham	*Puccinellia maritima*	Common Saltmarsh-grass	**6**		
Holkham	*Limonium binervosum*	Rock Sea-lavender	**1**	Q106	SM8
Holkham	*Puccinellia maritima*	Common Saltmarsh-grass	**7**		
Holkham	*Salicornia europaea* agg.	Common Glasswort	**8**		
Holkham	*Spergularia media*	Greater Sea-spurrey	**4**		
Holkham	*Suaeda maritima*	Annual Sea-blite	**6**		
Holkham	*Limonium humile*	Lax-flowered Sea-lavender	**5**	Q107	SM8
Holkham	*Puccinellia maritima*	Common Saltmarsh-grass	**5**		
Holkham	*Salicornia europaea* agg.	Common Glasswort	**8**		
Holkham	*Suaeda maritima*	Annual Sea-blite	**4**		

Site Name	*Scientific Name*	Common Name	Domin	Sample ID	NVC Type
Holkham	*Bare sand*		**8**	Q108	SM9
Holkham	*Limonium binervosum*	Rock Sea-lavender	**4**		
Holkham	*Limonium humile*	Lax-flowered Sea-lavender	**4**		
Holkham	*Salicornia europaea* agg.	Common Glasswort	**3**		
Holkham	*Spergularia media*	Greater Sea-spurrey	**3**		
Holkham	*Suaeda maritima*	Annual Sea-blite	**6**		
Holkham	*Bare sand*	Bare sand	**8**	Q109	SM8
Holkham	*Limonium binervosum*	Rock Sea-lavender	**3**		
Holkham	*Limonium humile*	Lax-flowered Sea-lavender	**8**		
Holkham	*Puccinellia maritima*	Common Saltmarsh-grass	**4**		
Holkham	*Salicornia europaea* agg.	Common Glasswort	**5**		
Holkham	*Suaeda maritima*	Annual Sea-blite	**4**		
Holkham	*Bare shingle*	Bare shingle	**7**	Q110	SM25
Holkham	*Suaeda vera*	Shrubby Sea-blite	**8**		
Holkham	*Bare sand*	Bare sand	**9**	Q111	SM21
Holkham	*Limonium binervosum*	Rock Sea-lavender	**5**		
Holkham	*Puccinellia maritima*	Common Saltmarsh-grass	**2**		
Holkham	*Salicornia europaea* agg.	Common Glasswort	**4**		
Holkham	*Suaeda maritima*	Annual Sea-blite	**4**		
Holkham	*Suaeda vera*	Shrubby Sea-blite	**5**		
Holkham	*Bare sand*	Bare sand	**7**	Q112	SM13c
Holkham	*Limonium binervosum*	Rock Sea-lavender	**5**		
Holkham	*Limonium humile*	Lax-flowered Sea-lavender	**8**		
Holkham	*Puccinellia maritima*	Common Saltmarsh-grass	**3**		
Holkham	*Salicornia europaea* agg.	Common Glasswort	**5**		
Holkham	*Suaeda maritima*	Annual Sea-blite	**4**		
Holkham	*Bare sand*	Bare sand	**9**	Q113	SM9
Holkham	*Limonium binervosum*	Rock Sea-lavender	**3**		
Holkham	*Puccinellia maritima*	Common Saltmarsh-grass	**6**		
Holkham	*Suaeda maritima*	Annual Sea-blite	**6**		
Holkham	*Aster tripolium (Rayless)*	Rayless Sea Aster	**3**	Q114	SM14a
Holkham	*Atriplex portulacoides*	Sea-purslane	**9**		
Holkham	*Limonium humile*	Lax-flowered Sea-lavender	**4**		
Holkham	*Puccinellia maritima*	Common Saltmarsh-grass	**2**		

Site Name	*Scientific Name*	Common Name	Domin	Sample ID	NVC Type
Holkham	*Aster tripolium (Rayless)*	Rayless Sea Aster	**1**	Q115	SM14a
Holkham	*Atriplex portulacoides*	Sea-purslane	**9**		
Holkham	*Bare sand*	Bare sand	**5**		
Holkham	*Limonium humile*	Lax-flowered Sea-lavender	**3**		
Holkham	*Puccinellia maritima*	Common Saltmarsh-grass	**4**		
Holkham	*Aster tripolium (Rayless)*	Rayless Sea Aster	**4**	Q116	SM14a
Holkham	*Atriplex portulacoides*	Sea-purslane	**8**		
Holkham	*Bare sand*	Bare sand	**5**		
Holkham	*Limonium bellidifolium*	Matted Sea-lavender	**4**		
Holkham	*Puccinellia maritima*	Common Saltmarsh-grass	**3**		
Holkham	*Salicornia europaea* agg.	Common Glasswort	**2**		
Holkham	*Spergularia media*	Greater Sea-spurrey	**3**		
Holkham	*Suaeda vera*	Shrubby Sea-blite	**2**		
Holkham	*Atriplex portulacoides*	Sea-purslane	**5**	Q117	SM25
Holkham	*Bare sand*	Bare sand	**8**		
Holkham	*Suaeda vera*	Shrubby Sea-blite	**5**		
Holkham	*Aster tripolium (Rayless)*	Rayless Sea Aster	**4**	Q118	SM14a
Holkham	*Atriplex portulacoides*	Sea-purslane	**9**		
Holkham	*Bare sand*	Bare sand	**5**		
Holkham	*Limonium humile*	Lax-flowered Sea-lavender	**4**		
Holkham	*Salicornia europaea* agg.	Common Glasswort	**3**		
Holkham	*Atriplex portulacoides*	Sea-purslane	**8**	Q119	SM14a
Holkham	*Bare sand*	Bare sand	**5**		
Holkham	*Limonium humile*	Lax-flowered Sea-lavender	**11**		
Holkham	*Salicornia europaea* agg.	Common Glasswort	**6**		
Holkham	*Suaeda maritima*	Annual Sea-blite	**1**		
Holkham	*Atriplex portulacoides*	Sea-purslane	**5**	Q120	SM21
Holkham	*Bare sand*	Bare sand	**9**		
Holkham	*Carex arenaria*	Sand Sedge	**4**		
Holkham	*Limonium binervosum*	Rock Sea-lavender	**5**		
Holkham	*Limonium humile*	Lax-flowered Sea-lavender	**4**		
Holkham	*Suaeda vera*	Shrubby Sea-blite	**4**		
Holkham	*Atriplex portulacoides*	Sea-purslane	**0**	Q121	SM8
Holkham	*Bare sand*	Bare sand	**9**		
Holkham	*Limonium humile*	Lax-flowered Sea-lavender	**0**		
Holkham	*Salicornia europaea* agg.	Common Glasswort	**0**		

Thornham (Transect 1)

Site Name	Scientific Name	Common Name	Domin	Sample ID	NVC Type
Thornham (Transect 1)	*Atriplex littoralis*	Grass-leaved Orache	**3**	Q122	SM28
Thornham (Transect 1)	*Atriplex portulacoides*	Sea-purslane	**11**		
Thornham (Transect 1)	*Elytrigia repens*	Common Couch	**10**		
Thornham (Transect 1)	*Sonchus arvensis*	Perennial Sow-thistle	**4**		
Thornham (Transect 1)	*Suaeda vera*	Shrubby Sea-blite	**11**		
Thornham (Transect 1)	*Armeria maritima*	Thrift	**7**	Q123	SM13c
Thornham (Transect 1)	*Aster tripolium*	Sea Aster	**3**		
Thornham (Transect 1)	*Atriplex portulacoides*	Sea-purslane	**4**		
Thornham (Transect 1)	*Limonium vulgare*	Common Sea-lavender	**7**		
Thornham (Transect 1)	*Plantago maritima*	Sea Plantain	**5**		
Thornham (Transect 1)	*Puccinellia maritima*	Common Saltmarsh-grass	**5**		
Thornham (Transect 1)	*Salicornia europaea* agg.	Common Glasswort	**4**		
Thornham (Transect 1)	*Atriplex portulacoides*	Sea-purslane	**6**	Q124	SM18a
Thornham (Transect 1)	*Juncus maritimus*	Sea Rush	**8**		
Thornham (Transect 1)	*Limonium vulgare*	Common Sea-lavender	**6**		
Thornham (Transect 1)	*Puccinellia maritima*	Common Saltmarsh-grass	**8**		
Thornham (Transect 1)	*Suaeda maritima*	Annual Sea-blite	**2**		
Thornham (Transect 1)	*Aster tripolium*	Sea Aster	**1**	Q125	SM14a
Thornham (Transect 1)	*Atriplex portulacoides*	Sea-purslane	**9**		
Thornham (Transect 1)	*Puccinellia maritima*	Common Saltmarsh-grass	**5**		
Thornham (Transect 1)	*Atriplex portulacoides*	Sea-purslane	**6**	Q126	SM28
Thornham (Transect 1)	*Elytrigia repens*	Common Couch	**9**		

Site Name	Scientific Name	Common Name	Domin	Sample ID	NVC Type
Thornham (Transect 1)	*Atriplex portulacoides*	Sea-purslane	**9**	Q127	SM14a
Thornham (Transect 1)	*Limonium vulgare*	Common Sea-lavender	**3**		
Thornham (Transect 1)	*Puccinellia maritima*	Common Saltmarsh-grass	**5**		
Thornham (Transect 1)	*Armeria maritima*	Thrift	**7**	Q128	SM13c
Thornham (Transect 1)	*Aster tripolium*	Sea Aster	**2**		
Thornham (Transect 1)	*Atriplex portulacoides*	Sea-purslane	**3**		
Thornham (Transect 1)	*Limonium vulgare*	Common Sea-lavender	**7**		
Thornham (Transect 1)	*Plantago maritima*	Sea Plantain	**7**		
Thornham (Transect 1)	*Puccinellia maritima*	Common Saltmarsh-grass	**4**		
Thornham (Transect 1)	*Triglochin maritimum*	Sea Arrowgrass	**4**		
Thornham (Transect 1)	*Aster tripolium*	Sea Aster	**3**	Q129	SM14c
Thornham (Transect 1)	*Atriplex portulacoides*	Sea-purslane	**6**		
Thornham (Transect 1)	*Limonium vulgare*	Common Sea-lavender	**3**		
Thornham (Transect 1)	*Puccinellia maritima*	Common Saltmarsh-grass	**9**		
Thornham (Transect 1)	*Atriplex portulacoides*	Sea-purslane	**8**	Q130	SM14c
Thornham (Transect 1)	*Limonium vulgare*	Common Sea-lavender	**4**		
Thornham (Transect 1)	*Puccinellia maritima*	Common Saltmarsh-grass	**6**		
Thornham (Transect 1)	*Atriplex portulacoides*	Sea-purslane	**6**	Q131	SM14c
Thornham (Transect 1)	*Limonium vulgare*	Common Sea-lavender	**5**		
Thornham (Transect 1)	*Puccinellia maritima*	Common Saltmarsh-grass	**8**		
Thornham (Transect 1)	*Spartina anglica*	Common Cord-grass	**6**		
Thornham (Transect 1)	*Suaeda maritima*	Annual Sea-blite	**3**		

Site Name	Scientific Name	Common Name	Domin	Sample ID	NVC Type
Thornham (Transect 1)	*Armeria maritima*	Thrift	**7**	Q132	SM13c
Thornham (Transect 1)	*Aster tripolium*	Sea Aster	**4**		
Thornham (Transect 1)	*Atriplex portulacoides*	Sea-purslane	**3**		
Thornham (Transect 1)	*Limonium vulgare*	Common Sea-lavender	**8**		
Thornham (Transect 1)	*Plantago maritima*	Sea Plantain	**7**		
Thornham (Transect 1)	*Puccinellia maritima*	Common Saltmarsh-grass	**4**		
Thornham (Transect 1)	*Aster tripolium*	Sea Aster	**1**	Q133	SM14c
Thornham (Transect 1)	*Atriplex portulacoides*	Sea-purslane	**7**		
Thornham (Transect 1)	*Juncus maritimus*	Sea Rush	**8**		
Thornham (Transect 1)	*Limonium vulgare*	Common Sea-lavender	**3**		
Thornham (Transect 1)	*Puccinellia maritima*	Common Saltmarsh-grass	**8**		
Thornham (Transect 1)	*Armeria maritima*	Thrift	**7**	Q134	SM13c
Thornham (Transect 1)	*Aster tripolium*	Sea Aster	**1**		
Thornham (Transect 1)	*Atriplex portulacoides*	Sea-purslane	**1**		
Thornham (Transect 1)	*Limonium vulgare*	Common Sea-lavender	**5**		
Thornham (Transect 1)	*Plantago maritima*	Sea Plantain	**8**		
Thornham (Transect 1)	*Puccinellia maritima*	Common Saltmarsh-grass	**4**		
Thornham (Transect 1)	*Triglochin maritimum*	Sea Arrowgrass	**3**		
Thornham (Transect 1)	*Armeria maritima*	Thrift	**7**	Q135	SM13c
Thornham (Transect 1)	*Aster tripolium (Rayless)*	Rayless Sea Aster	**1**		
Thornham (Transect 1)	*Atriplex portulacoides*	Sea-purslane	**3**		
Thornham (Transect 1)	*Limonium vulgare*	Common Sea-lavender	**6**		
Thornham (Transect 1)	*Plantago maritima*	Sea Plantain	**8**		
Thornham (Transect 1)	*Puccinellia maritima*	Common Saltmarsh-grass	**4**		

Site Name	Scientific Name	Common Name	Domin	Sample ID	NVC Type
Thornham (Transect 1)	*Atriplex portulacoides*	Sea-purslane	**7**	Q136	SM14c
Thornham (Transect 1)	*Juncus maritimus*	Sea Rush	**4**		
Thornham (Transect 1)	*Limonium vulgare*	Common Sea-lavender	**3**		
Thornham (Transect 1)	*Puccinellia maritima*	Common Saltmarsh-grass	**8**		
Thornham (Transect 1)	*Atriplex portulacoides*	Sea-purslane	**3**	Q137	SM28
Thornham (Transect 1)	*Elytrigia repens*	Common Couch	**10**		
Thornham (Transect 1)	*Suaeda vera*	Shrubby Sea-blite	**4**		
Thornham (Transect 1)	*Atriplex portulacoides*	Sea-purslane	**4**	Q138	SM28
Thornham (Transect 1)	*Elytrigia repens*	Common Couch	**10**		
Thornham (Transect 1)	*Limonium vulgare*	Common Sea-lavender	**3**		
Thornham (Transect 1)	*Suaeda vera*	Shrubby Sea-blite	**4**		
Thornham (Transect 1)	*Aster tripolium (Rayless)*	Rayless Sea Aster	**3**	Q139	SM28
Thornham (Transect 1)	*Atriplex portulacoides*	Sea-purslane	**6**		
Thornham (Transect 1)	*Elytrigia repens*	Common Couch	**9**		
Thornham (Transect 1)	*Suaeda vera*	Shrubby Sea-blite	**5**		
Thornham (Transect 1)	*Aster tripolium (Rayless)*	Rayless Sea Aster	**2**	Q140	SM14a
Thornham (Transect 1)	*Atriplex portulacoides*	Sea-purslane	**10**		
Thornham (Transect 1)	*Puccinellia maritima*	Common Saltmarsh-grass	**4**		
Thornham (Transect 1)	*Seriphidium maritimum*	Sea Wormwood	**2**		
Thornham (Transect 1)	*Aster tripolium (Rayless)*	Rayless Sea Aster	**4**	Q141	SM14c
Thornham (Transect 1)	*Atriplex portulacoides*	Sea-purslane	**8**		
Thornham (Transect 1)	*Limonium vulgare*	Common Sea-lavender	**5**		
Thornham (Transect 1)	*Plantago maritima*	Sea Plantain	**4**		
Thornham (Transect 1)	*Puccinellia maritima*	Common Saltmarsh-grass	**7**		
Thornham (Transect 1)	*Seriphidium maritimum*	Sea Wormwood	**4**		
Thornham (Transect 1)	*Suaeda maritima*	Annual Sea-blite	**2**		

Site Name	Scientific Name	Common Name	Domin	Sample ID	NVC Type
Thornham (Transect 1)	*Aster tripolium (Rayless)*	Rayless Sea Aster	**7**	Q142	SM11
Thornham (Transect 1)	*Atriplex portulacoides*	Sea-purslane	**5**		
Thornham (Transect 1)	*Limonium vulgare*	Common Sea-lavender	**5**		
Thornham (Transect 1)	*Puccinellia maritima*	Common Saltmarsh-grass	**7**		
Thornham (Transect 1)	*Salicornia europaea* agg.	Common Glasswort	**6**		
Thornham (Transect 1)	*Suaeda maritima*	Annual Sea-blite	**4**		
Thornham (Transect 1)	*Aster tripolium (Rayless)*	Rayless Sea Aster	**6**	Q143	SM11
Thornham (Transect 1)	*Limonium vulgare*	Common Sea-lavender	**8**		
Thornham (Transect 1)	*Puccinellia maritima*	Common Saltmarsh-grass	**4**		
Thornham (Transect 1)	*Salicornia europaea* agg.	Common Glasswort	**8**		
Thornham (Transect 1)	*Spartina anglica*	Common Cord-grass	**5**		
Thornham (Transect 1)	*Suaeda maritima*	Annual Sea-blite	**3**		
Thornham (Transect 1)	*Aster tripolium (Rayless)*	Rayless Sea Aster	**4**	Q144	SM14a
Thornham (Transect 1)	*Atriplex portulacoides*	Sea-purslane	**9**		
Thornham (Transect 1)	*Bare mud*	Bare mud	**6**		
Thornham (Transect 1)	*Limonium vulgare*	Common Sea-lavender	**4**		
Thornham (Transect 1)	*Salicornia europaea* agg.	Common Glasswort	**5**		
Thornham (Transect 1)	*Suaeda maritima*	Annual Sea-blite	**3**		
Thornham (Transect 1)	*Aster tripolium (Rayless)*	Rayless Sea Aster	**4**	Q145	SM14a
Thornham (Transect 1)	*Atriplex portulacoides*	Sea-purslane	**9**		
Thornham (Transect 1)	*Bare mud*	Bare mud	**5**		
Thornham (Transect 1)	*Limonium vulgare*	Common Sea-lavender	**4**		
Thornham (Transect 1)	*Salicornia europaea* agg.	Common Glasswort	**3**		
Thornham (Transect 1)	*Suaeda maritima*	Annual Sea-blite	**2**		

Site Name	Scientific Name	Common Name	Domin	Sample ID	NVC Type
Thornham (Transect 1)	*Atriplex portulacoides*	Sea-purslane	**3**	Q146	SM9
Thornham (Transect 1)	*Bare mud*	Bare mud	**7**		
Thornham (Transect 1)	*Salicornia europaea* agg.	Common Glasswort	**4**		
Thornham (Transect 1)	*Suaeda maritima*	Annual Sea-blite	**8**		
Thornham (Transect 1)	*Bare mud*	Bare mud	**8**	Q147	SM9
Thornham (Transect 1)	*Salicornia europaea* agg.	Common Glasswort	**6**		
Thornham (Transect 1)	*Spartina anglica*	Common Cord-grass	**3**		
Thornham (Transect 1)	*Suaeda maritima*	Annual Sea-blite	**7**		
Thornham (Transect 1)	*Bare mud*	Bare mud	**9**	Q148	SM9
Thornham (Transect 1)	*Salicornia europaea* agg.	Common Glasswort	**6**		
Thornham (Transect 1)	*Suaeda maritima*	Annual Sea-blite	**7**		
Thornham (Transect 1)	*Algal Mat*	Algal Mat	**2**	Q149	SM9
Thornham (Transect 1)	*Bare mud*	Bare mud	**9**		
Thornham (Transect 1)	*Limonium vulgare*	Common Sea-lavender	**5**		
Thornham (Transect 1)	*Salicornia europaea* agg.	Common Glasswort	**4**		
Thornham (Transect 1)	*Suaeda maritima*	Annual Sea-blite	**6**		
Thornham (Transect 1)	*Bare mud*	Bare mud	**8**	Q150	SM9
Thornham (Transect 1)	*Limonium vulgare*	Common Sea-lavender	**4**		
Thornham (Transect 1)	*Salicornia europaea* agg.	Common Glasswort	**5**		
Thornham (Transect 1)	*Suaeda maritima*	Annual Sea-blite	**6**		

Thornham (Transect 2) N1C3

Site Name	Scientific Name	Common Name	Domin	Sample ID	NVC Type
Thornham (Transect 2) N1C3	*Aster tripolium (Rayless)*	Rayless Sea Aster	**4**	Q151	SM14a
Thornham (Transect 2) N1C3	*Atriplex portulacoides*	Sea-purslane	**9**		
Thornham (Transect 2) N1C3	*Suaeda maritima*	Annual Sea-blite	**7**		
Thornham (Transect 2) N1C3	*Bare mud*	Bare mud	**9**	Q152	SM9
Thornham (Transect 2) N1C3	*Suaeda maritima*	Annual Sea-blite	**5**		
Thornham (Transect 2) N1C3	*Aster tripolium (Rayless)*	Rayless Sea Aster	**4**	Q153	SM14c
Thornham (Transect 2) N1C3	*Atriplex portulacoides*	Sea-purslane	**9**		
Thornham (Transect 2) N1C3	*Puccinellia maritima*	Common Saltmarsh-grass	**4**		
Thornham (Transect 2) N1C3	*Suaeda maritima*	Annual Sea-blite	**6**		
Thornham (Transect 2) N1C3	*Aster tripolium (Rayless)*	Rayless Sea Aster	**5**	Q154	SM14c
Thornham (Transect 2) N1C3	*Atriplex portulacoides*	Sea-purslane	**8**		
Thornham (Transect 2) N1C3	*Limonium vulgare*	Common Sea-lavender	**5**		
Thornham (Transect 2) N1C3	*Puccinellia maritima*	Common Saltmarsh-grass	**4**		
Thornham (Transect 2) N1C3	*Suaeda maritima*	Annual Sea-blite	**4**		

Site Name	Scientific Name	Common Name	Domin	Sample ID	NVC Type
Thornham (Transect 2) N1C3	*Aster tripolium (Rayless)*	Rayless Sea Aster	**5**	Q155	SM14a
Thornham (Transect 2) N1C3	*Atriplex portulacoides*	Sea-purslane	**8**		
Thornham (Transect 2) N1C3	*Limonium vulgare*	Common Sea-lavender	**5**		
Thornham (Transect 2) N1C3	*Puccinellia maritima*	Common Saltmarsh-grass	**5**		
Thornham (Transect 2) N1C3	*Suaeda maritima*	Annual Sea-blite	**5**		
Thornham (Transect 2) N1C3	*Aster tripolium (Rayless)*	Rayless Sea Aster	**6**	Q156	SM14c
Thornham (Transect 2) N1C3	*Atriplex portulacoides*	Sea-purslane	**7**		
Thornham (Transect 2) N1C3	*Limonium vulgare*	Common Sea-lavender	**5**		
Thornham (Transect 2) N1C3	*Puccinellia maritima*	Common Saltmarsh-grass	**8**		
Thornham (Transect 2) N1C3	*Salicornia europaea* agg.	Common Glasswort	**2**		
Thornham (Transect 2) N1C3	*Suaeda maritima*	Annual Sea-blite	**6**		

Site Name	Scientific Name	Common Name	Domin	Sample ID	NVC Type
Thornham (Transect 2) N1C3	*Armeria maritima*	Thrift	**6**	Q157	SM13c
Thornham (Transect 2) N1C3	*Atriplex portulacoides*	Sea-purslane	**3**		
Thornham (Transect 2) N1C3	*Limonium vulgare*	Common Sea-lavender	**9**		
Thornham (Transect 2) N1C3	*Plantago maritima*	Sea Plantain	**7**		
Thornham (Transect 2) N1C3	*Puccinellia maritima*	Common Saltmarsh-grass	**4**		
Thornham (Transect 2) N1C3	*Salicornia europaea* agg.	Common Glasswort	**4**		
Thornham (Transect 2) N1C3	*Suaeda maritima*	Annual Sea-blite	**3**		
Thornham (Transect 2) N1C3	*Triglochin maritimum*	Sea Arrowgrass	**5**		
Thornham (Transect 2) N1C3	*Elytrigia repens*	Common Couch	**10**	Q158	SM28
Thornham (Transect 2) N1C3	*Suaeda vera*	Shrubby Sea-blite	**4**		
Thornham (Transect 2) N1C3	*Armeria maritima*	Thrift	**5**	Q159	SM13c
Thornham (Transect 2) N1C3	*Atriplex portulacoides*	Sea-purslane	**7**		
Thornham (Transect 2) N1C3	*Limonium vulgare*	Common Sea-lavender	**8**		
Thornham (Transect 2) N1C3	*Puccinellia maritima*	Common Saltmarsh-grass	**7**		
Thornham (Transect 2) N1C3	*Salicornia europaea* agg.	Common Glasswort	**4**		
Thornham (Transect 2) N1C3	*Spartina anglica*	Common Cord-grass	**3**		
Thornham (Transect 2) N1C3	*Triglochin maritimum*	Sea Arrowgrass	**4**		

Site Name	Scientific Name	Common Name	Domin	Sample ID	NVC Type
Thornham (Transect 2) N1C3	*Armeria maritima*	Thrift	**6**	Q160	SM13c
Thornham (Transect 2) N1C3	*Limonium vulgare*	Common Sea-lavender	**5**		
Thornham (Transect 2) N1C3	*Puccinellia maritima*	Common Saltmarsh-grass	**4**		
Thornham (Transect 2) N1C3	*Salicornia europaea* agg.	Common Glasswort	**5**		
Thornham (Transect 2) N1C3	*Spartina anglica*	Common Cord-grass	**1**		
Thornham (Transect 2) N1C3	*Spergularia media*	Greater Sea-spurrey	**3**		
Thornham (Transect 2) N1C3	*Triglochin maritimum*	Sea Arrowgrass	**5**		
Thornham (Transect 2) N1C3	*Armeria maritima*	Thrift	**5**	Q161	SM13c
Thornham (Transect 2) N1C3	*Atriplex portulacoides*	Sea-purslane	**4**		
Thornham (Transect 2) N1C3	*Limonium vulgare*	Common Sea-lavender	**8**		
Thornham (Transect 2) N1C3	*Puccinellia maritima*	Common Saltmarsh-grass	**4**		
Thornham (Transect 2) N1C3	*Salicornia europaea* agg.	Common Glasswort	**5**		
Thornham (Transect 2) N1C3	*Suaeda maritima*	Annual Sea-blite	**1**		
Thornham (Transect 2) N1C3	*Triglochin maritimum*	Sea Arrowgrass	**4**		

Site Name	Scientific Name	Common Name	Domin	Sample ID	NVC Type
Thornham (Transect 2) N1C3	*Atriplex portulacoides*	Sea-purslane	**4**	Q162	SM13c
Thornham (Transect 2) N1C3	*Limonium vulgare*	Common Sea-lavender	**9**		
Thornham (Transect 2) N1C3	*Salicornia europaea* agg.	Common Glasswort	**5**		
Thornham (Transect 2) N1C3	*Suaeda maritima*	Annual Sea-blite	**3**		
Thornham (Transect 2) N1C3	*Triglochin maritimum*	Sea Arrowgrass	**4**		
Thornham (Transect 2) N1C3	*Atriplex portulacoides*	Sea-purslane	**4**	Q163	SM28
Thornham (Transect 2) N1C3	*Elytrigia repens*	Common Couch	**9**		
Thornham (Transect 2) N1C3	*Puccinellia maritima*	Common Saltmarsh-grass	**3**		
Thornham (Transect 2) N1C3	*Seriphidium maritimum*	Sea Wormwood	**3**		
Thornham (Transect 2) N1C3	*Suaeda vera*	Shrubby Sea-blite	**11**		

Stiffkey N2D4

Site Name	Scientific Name	Common Name	Domin	Sample ID	NVC Type
Stiffkey N2D4	*Atriplex portulacoides*	Sea-purslane	**2**	Q164	SM25
Stiffkey N2D4	*Bare ground*	Bare ground	**5**		
Stiffkey N2D4	*Salicornia europaea* agg.	Common Glasswort	**1**		
Stiffkey N2D4	*Suaeda vera*	Shrubby Sea-blite	**9**		
Stiffkey N2D4	*Atriplex portulacoides*	Sea-purslane	**6**	Q165	SM14c
Stiffkey N2D4	*Limonium vulgare*	Common Sea-lavender	**6**		
Stiffkey N2D4	*Puccinellia maritima*	Common Saltmarsh-grass	**4**		
Stiffkey N2D4	*Salicornia europaea* agg.	Common Glasswort	**4**		
Stiffkey N2D4	*Suaeda maritima*	Annual Sea-blite	**3**		
Stiffkey N2D4	*Triglochin maritimum*	Sea Arrowgrass	**4**		
Stiffkey N2D4	*Armeria maritima*	Thrift	**5**	Q166	SM13c
Stiffkey N2D4	*Atriplex portulacoides*	Sea-purslane	**4**		
Stiffkey N2D4	*Limonium vulgare*	Common Sea-lavender	**7**		
Stiffkey N2D4	*Puccinellia maritima*	Common Saltmarsh-grass	**5**		
Stiffkey N2D4	*Salicornia europaea* agg.	Common Glasswort	**4**		
Stiffkey N2D4	*Suaeda maritima*	Annual Sea-blite	**2**		
Stiffkey N2D4	*Triglochin maritimum*	Sea Arrowgrass	**4**		

Site Name	Scientific Name	Common Name	Domin	Sample ID	NVC Type
Stiffkey N2D4	*Armeria maritima*	Thrift	**5**	Q167	SM13c
Stiffkey N2D4	*Aster tripolium*	Sea Aster	**3**		
Stiffkey N2D4	*Atriplex portulacoides*	Sea-purslane	**3**		
Stiffkey N2D4	*Limonium vulgare*	Common Sea-lavender	**7**		
Stiffkey N2D4	*Plantago maritima*	Sea Plantain	**4**		
Stiffkey N2D4	*Puccinellia maritima*	Common Saltmarsh-grass	**4**		
Stiffkey N2D4	*Salicornia europaea* agg.	Common Glasswort	**4**		
Stiffkey N2D4	*Suaeda maritima*	Annual Sea-blite	**3**		
Stiffkey N2D4	*Triglochin maritimum*	Sea Arrowgrass	**5**		
Stiffkey N2D4	*Aster tripolium (Rayless)*	Rayless Sea Aster	**3**	Q168	SM28
Stiffkey N2D4	*Atriplex portulacoides*	Sea-purslane	**2**		
Stiffkey N2D4	*Elytrigia repens*	Common Couch	**7**		
Stiffkey N2D4	*Limonium vulgare*	Common Sea-lavender	**2**		
Stiffkey N2D4	*Puccinellia maritima*	Common Saltmarsh-grass	**5**		
Stiffkey N2D4	*Suaeda vera*	Shrubby Sea-blite	**5**		
Stiffkey N2D4	*Aster tripolium*	Sea Aster	**4**	Q169	SM14c
Stiffkey N2D4	*Atriplex portulacoides*	Sea-purslane	**7**		
Stiffkey N2D4	*Limonium vulgare*	Common Sea-lavender	**5**		
Stiffkey N2D4	*Puccinellia maritima*	Common Saltmarsh-grass	**6**		
Stiffkey N2D4	*Salicornia europaea* agg.	Common Glasswort	**4**		
Stiffkey N2D4	*Suaeda maritima*	Annual Sea-blite	**3**		

Site Name	Scientific Name	Common Name	Domin	Sample ID	NVC Type
Stiffkey N2D4	*Atriplex portulacoides*	Sea-purslane	**7**	Q170	SM17
Stiffkey N2D4	*Elytrigia repens*	Common Couch	**6**		
Stiffkey N2D4	*Festuca rubra*	Red Fescue	**6**		
Stiffkey N2D4	*Limonium vulgare*	Common Sea-lavender	**5**		
Stiffkey N2D4	*Plantago maritima*	Sea Plantain	**4**		
Stiffkey N2D4	*Puccinellia maritima*	Common Saltmarsh-grass	**4**		
Stiffkey N2D4	*Seriphidium maritimum*	Sea Wormwood	**5**		
Stiffkey N2D4	*Atriplex portulacoides*	Sea-purslane	**7**	Q171	SM28
Stiffkey N2D4	*Elytrigia repens*	Common Couch	**9**		
Stiffkey N2D4	*Suaeda vera*	Shrubby Sea-blite	**4**		
Stiffkey N2D4	*Atriplex portulacoides*	Sea-purslane	**5**	Q172	SM17
Stiffkey N2D4	*Elytrigia repens*	Common Couch	**8**		
Stiffkey N2D4	*Limonium vulgare*	Common Sea-lavender	**4**		
Stiffkey N2D4	*Seriphidium maritimum*	Sea Wormwood	**4**		
Stiffkey N2D4	*Suaeda vera*	Shrubby Sea-blite	**4**		
Stiffkey N2D4	*Triglochin maritimum*	Sea Arrowgrass	**2**		
Stiffkey N2D4	*Aster tripolium (Rayless)*	Rayless Sea Aster	**4**	Q173	SM8
Stiffkey N2D4	*Bare mud*	Bare mud	**4**		
Stiffkey N2D4	*Limonium vulgare*	Common Sea-lavender	**5**		
Stiffkey N2D4	*Salicornia europaea* agg.	Common Glasswort	**8**		
Stiffkey N2D4	*Spartina anglica*	Common Cord-grass	**3**		

Site Name	Scientific Name	Common Name	Domin	Sample ID	NVC Type
Stiffkey N2D4	*Armeria maritima*	Thrift	**5**	Q174	SM13c
Stiffkey N2D4	*Atriplex portulacoides*	Sea-purslane	**5**		
Stiffkey N2D4	*Bare mud*	Bare mud	**4**		
Stiffkey N2D4	*Limonium vulgare*	Common Sea-lavender	**7**		
Stiffkey N2D4	*Plantago maritima*	Sea Plantain	**7**		
Stiffkey N2D4	*Puccinellia maritima*	Common Saltmarsh-grass	**4**		
Stiffkey N2D4	*Salicornia europaea* agg.	Common Glasswort	**4**		
Stiffkey N2D4	*Triglochin maritimum*	Sea Arrowgrass	**5**		
Stiffkey N2D4	*Aster tripolium*	Sea Aster	**4**	Q175	SM17
Stiffkey N2D4	*Festuca rubra*	Red Fescue	**5**		
Stiffkey N2D4	*Limonium vulgare*	Common Sea-lavender	**5**		
Stiffkey N2D4	*Plantago maritima*	Sea Plantain	**4**		
Stiffkey N2D4	*Puccinellia maritima*	Common Saltmarsh-grass	**7**		
Stiffkey N2D4	*Seriphidium maritimum*	Sea Wormwood	**4**		
Stiffkey N2D4	*Suaeda maritima*	Annual Sea-blite	**3**		
Stiffkey N2D4	*Aster tripolium*	Sea Aster	**3**	Q176	SM17
Stiffkey N2D4	*Atriplex portulacoides*	Sea-purslane	**7**		
Stiffkey N2D4	*Festuca rubra*	Red Fescue	**7**		
Stiffkey N2D4	*Limonium vulgare*	Common Sea-lavender	**6**		
Stiffkey N2D4	*Plantago maritima*	Sea Plantain	**3**		
Stiffkey N2D4	*Puccinellia maritima*	Common Saltmarsh-grass	**7**		
Stiffkey N2D4	*Suaeda maritima*	Annual Sea-blite	**2**		
Stiffkey N2D4	*Suaeda vera*	Shrubby Sea-blite	**4**		
Stiffkey N2D4	*Triglochin maritimum*	Sea Arrowgrass	**3**		

Site Name	Scientific Name	Common Name	Domin	Sample ID	NVC Type
Stiffkey N2D4	*Armeria maritima*	Thrift	**6**	Q177	SM13c
Stiffkey N2D4	*Limonium vulgare*	Common Sea-lavender	**6**		
Stiffkey N2D4	*Plantago maritima*	Sea Plantain	**6**		
Stiffkey N2D4	*Puccinellia maritima*	Common Saltmarsh-grass	**4**		
Stiffkey N2D4	*Salicornia europaea* agg.	Common Glasswort	**3**		
Stiffkey N2D4	*Triglochin maritimum*	Sea Arrowgrass	**5**		
Stiffkey N2D4	*Aster tripolium*	Sea Aster	**3**	Q178	SM17
Stiffkey N2D4	*Festuca rubra*	Red Fescue	**4**		
Stiffkey N2D4	*Limonium vulgare*	Common Sea-lavender	**5**		
Stiffkey N2D4	*Plantago maritima*	Sea Plantain	**4**		
Stiffkey N2D4	*Puccinellia maritima*	Common Saltmarsh-grass	**7**		
Stiffkey N2D4	*Seriphidium maritimum*	Sea Wormwood	**6**		
Stiffkey N2D4	*Suaeda maritima*	Annual Sea-blite	**4**		
Stiffkey N2D4	*Atriplex portulacoides*	Sea-purslane	**6**	Q179	SM17
Stiffkey N2D4	*Festuca rubra*	Red Fescue	**5**		
Stiffkey N2D4	*Limonium vulgare*	Common Sea-lavender	**4**		
Stiffkey N2D4	*Plantago maritima*	Sea Plantain	**6**		
Stiffkey N2D4	*Puccinellia maritima*	Common Saltmarsh-grass	**5**		
Stiffkey N2D4	*Seriphidium maritimum*	Sea Wormwood	**4**		
Stiffkey N2D4	*Suaeda maritima*	Annual Sea-blite	**3**		
Stiffkey N2D4	*Atriplex portulacoides*	Sea-purslane	**4**	Q180	SM17
Stiffkey N2D4	*Elytrigia repens*	Common Couch	**4**		
Stiffkey N2D4	*Juncus maritimus*	Sea Rush	**8**		
Stiffkey N2D4	*Limonium vulgare*	Common Sea-lavender	**4**		
Stiffkey N2D4	*Plantago maritima*	Sea Plantain	**5**		

Site Name	Scientific Name	Common Name	Domin	Sample ID	NVC Type
Stiffkey N2D4	*Aster tripolium*	Sea Aster	**3**	Q181	SM28
Stiffkey N2D4	*Atriplex portulacoides*	Sea-purslane	**2**		
Stiffkey N2D4	*Elytrigia repens*	Common Couch	**10**		
Stiffkey N2D4	*Limonium vulgare*	Common Sea-lavender	**2**		
Stiffkey N2D4	*Seriphidium maritimum*	Sea Wormwood	**2**		
Stiffkey N2D4	*Suaeda vera*	Shrubby Sea-blite	**4**		
Stiffkey N2D4	*Elytrigia repens*	Common Couch	**8**	Q182	SM28
Stiffkey N2D4	*Juncus maritimus*	Sea Rush	**8**		
Stiffkey N2D4	*Seriphidium maritimum*	Sea Wormwood	**2**		
Stiffkey N2D4	*Suaeda vera*	Shrubby Sea-blite	**4**		
Stiffkey N2D4	*Aster tripolium*	Sea Aster	**2**	Q183	SM6
Stiffkey N2D4	*Puccinellia maritima*	Common Saltmarsh-grass	**4**		
Stiffkey N2D4	*Salicornia europaea* agg.	Common Glasswort	**2**		
Stiffkey N2D4	*Spartina anglica*	Common Cord-grass	**9**		
Stiffkey N2D4	*Aster tripolium*	Sea Aster	**3**	Q184	SM6
Stiffkey N2D4	*Bare mud*	Bare mud	**4**		
Stiffkey N2D4	*Salicornia europaea* agg.	Common Glasswort	**3**		
Stiffkey N2D4	*Spartina anglica*	Common Cord-grass	**8**		
Stiffkey N2D4	*Algal Mat*	Algal Mat	**3**	Q185	SM14a
Stiffkey N2D4	*Aster tripolium*	Sea Aster	**2**		
Stiffkey N2D4	*Atriplex portulacoides*	Sea-purslane	**9**		
Stiffkey N2D4	*Bare mud*	Bare mud	**3**		
Stiffkey N2D4	*Salicornia europaea* agg.	Common Glasswort	**3**		
Stiffkey N2D4	*Spartina anglica*	Common Cord-grass	**4**		

Site Name	Scientific Name	Common Name	Domin	Sample ID	NVC Type
Stiffkey N2D4	*Suaeda maritima*	Annual Sea-blite	**3**		
Stiffkey N2D4	*Bare mud*	Bare mud	**5**	Q186	SM9
Stiffkey N2D4	*Salicornia europaea* agg.	Common Glasswort	**5**		
Stiffkey N2D4	*Suaeda maritima*	Annual Sea-blite	**6**		
Stiffkey N2D4	*Bare mud*	Bare mud	**5**	Q187	SM9
Stiffkey N2D4	*Limonium vulgare*	Common Sea-lavender	**3**		
Stiffkey N2D4	*Salicornia europaea* agg.	Common Glasswort	**4**		
Stiffkey N2D4	*Suaeda maritima*	Annual Sea-blite	**6**		
Stiffkey N2D4	*Algal Mat*		**2**	Q188	SM9
Stiffkey N2D4	*Bare mud*	Bare mud	**4**		
Stiffkey N2D4	*Channel wrack*		**5**		
Stiffkey N2D4	*Salicornia europaea* agg.	Common Glasswort	**5**		
Stiffkey N2D4	*Suaeda maritima*	Annual Sea-blite	**5**		

Warham ND2D

Site Name	Scientific Name	Common Name	Domin	Sample ID	NVC Type
Warham ND2D	*Atriplex portulacoides*	Sea-purslane	**4**	Q189	SM25
Warham ND2D	*Elytrigia repens*	Common Couch	**7**		
Warham ND2D	*Seriphidium maritimum*	Sea Wormwood	**4**		
Warham ND2D	*Suaeda vera*	Shrubby Sea-blite	**7**		
Warham ND2D	*Aster tripolium (Rayless)*	Rayless Sea Aster	**4**	Q190	SM14c
Warham ND2D	*Atriplex portulacoides*	Sea-purslane	**8**		
Warham ND2D	*Limonium vulgare*	Common Sea-lavender	**4**		
Warham ND2D	*Puccinellia maritima*	Common Saltmarsh-grass	**6**		
Warham ND2D	*Suaeda maritima*	Annual Sea-blite	**3**		
Warham ND2D	*Triglochin maritimum*	Sea Arrowgrass	**3**		
Warham ND2D	*Algal Mat*	Algal Mat	**5**	Q191	SM13c
Warham ND2D	*Armeria maritima*	Thrift	**4**		
Warham ND2D	*Atriplex portulacoides*	Sea-purslane	**4**		
Warham ND2D	*Limonium vulgare*	Common Sea-lavender	**4**		
Warham ND2D	*Plantago maritima*	Sea Plantain	**5**		
Warham ND2D	*Puccinellia maritima*	Common Saltmarsh-grass	**4**		
Warham ND2D	*Salicornia europaea* agg.	Common Glasswort	**3**		
Warham ND2D	*Spartina anglica*	Common Cord-grass	**11**		
Warham ND2D	*Suaeda maritima*	Annual Sea-blite	**2**		
Warham ND2D	*Triglochin maritimum*	Sea Arrowgrass	**4**		

Site Name	Scientific Name	Common Name	Domin	Sample ID	NVC Type
Warham ND2D	*Algal Mat*	Algal Mat	**3**	Q192	SM13c
Warham ND2D	*Armeria maritima*	Thrift	**4**		
Warham ND2D	*Aster tripolium (Rayless)*	Rayless Sea Aster	**2**		
Warham ND2D	*Bare mud*	Bare mud	**4**		
Warham ND2D	*Limonium vulgare*	Common Sea-lavender	**5**		
Warham ND2D	*Plantago maritima*	Sea Plantain	**6**		
Warham ND2D	*Puccinellia maritima*	Common Saltmarsh-grass	**4**		
Warham ND2D	*Salicornia europaea* agg.	Common Glasswort	**3**		
Warham ND2D	*Suaeda maritima*	Annual Sea-blite	**2**		
Warham ND2D	*Triglochin maritimum*	Sea Arrowgrass	**4**		
Warham ND2D	*Atriplex portulacoides*	Sea-purslane	**5**	Q193	SM25
Warham ND2D	*Elytrigia repens*	Common Couch	**9**		
Warham ND2D	*Seriphidium maritimum*	Sea Wormwood	**2**		
Warham ND2D	*Suaeda vera*	Shrubby Sea-blite	**5**		
Warham ND2D	*Aster tripolium (Rayless)*	Rayless Sea Aster	**2**	Q194	SM14c
Warham ND2D	*Atriplex portulacoides*	Sea-purslane	**6**		
Warham ND2D	*Festuca rubra*	Red Fescue	**5**		
Warham ND2D	*Limonium vulgare*	Common Sea-lavender	**4**		
Warham ND2D	*Plantago maritima*	Sea Plantain	**4**		
Warham ND2D	*Puccinellia maritima*	Common Saltmarsh-grass	**5**		
Warham ND2D	*Suaeda maritima*	Annual Sea-blite	**1**		
Warham ND2D	*Triglochin maritimum*	Sea Arrowgrass	**3**		
Warham ND2D	*Atriplex portulacoides*	Sea-purslane	**5**	Q195	SM25
Warham ND2D	*Elytrigia repens*	Common Couch	**8**		
Warham ND2D	*Suaeda vera*	Shrubby Sea-blite	**7**		

Site Name	Scientific Name	Common Name	Domin	Sample ID	NVC Type
Warham ND2D	*Algal Mat*	Algal Mat	**3**	Q196	SM13c
Warham ND2D	*Armeria maritima*	Thrift	**6**		
Warham ND2D	*Bare mud*	Bare mud	**4**		
Warham ND2D	*Limonium vulgare*	Common Sea-lavender	**5**		
Warham ND2D	*Plantago maritima*	Sea Plantain	**2**		
Warham ND2D	*Puccinellia maritima*	Common Saltmarsh-grass	**5**		
Warham ND2D	*Salicornia europaea* agg.	Common Glasswort	**4**		
Warham ND2D	*Suaeda maritima*	Annual Sea-blite	**2**		
Warham ND2D	*Triglochin maritimum*	Sea Arrowgrass	**4**		
Warham ND2D	*Aster tripolium (Rayless)*	Rayless Sea Aster	**3**	Q197	SM14c
Warham ND2D	*Atriplex portulacoides*	Sea-purslane	**8**		
Warham ND2D	*Festuca rubra*	Red Fescue	**6**		
Warham ND2D	*Limonium vulgare*	Common Sea-lavender	**5**		
Warham ND2D	*Plantago maritima*	Sea Plantain	**3**		
Warham ND2D	*Puccinellia maritima*	Common Saltmarsh-grass	**7**		
Warham ND2D	*Suaeda maritima*	Annual Sea-blite	**4**		
Warham ND2D	*Triglochin maritimum*	Sea Arrowgrass	**2**		
Warham ND2D	*Atriplex portulacoides*	Sea-purslane	**7**	Q198	SM17
Warham ND2D	*Festuca rubra*	Red Fescue	**5**		
Warham ND2D	*Limonium vulgare*	Common Sea-lavender	**4**		
Warham ND2D	*Puccinellia maritima*	Common Saltmarsh-grass	**6**		
Warham ND2D	*Seriphidium maritimum*	Sea Wormwood	**4**		
Warham ND2D	*Suaeda maritima*	Annual Sea-blite	**3**		

Site Name	Scientific Name	Common Name	Domin	Sample ID	NVC Type
Warham ND2D	*Aster tripolium (Rayless)*	Rayless Sea Aster	**3**	Q199	SM17
Warham ND2D	*Elytrigia repens*	Common Couch	**5**		
Warham ND2D	*Festuca rubra*	Red Fescue	**4**		
Warham ND2D	*Limonium vulgare*	Common Sea-lavender	**4**		
Warham ND2D	*Puccinellia maritima*	Common Saltmarsh-grass	**5**		
Warham ND2D	*Seriphidium maritimum*	Sea Wormwood	**3**		
Warham ND2D	*Suaeda maritima*	Annual Sea-blite	**2**		
Warham ND2D	*Suaeda vera*	Shrubby Sea-blite	**3**		
Warham ND2D	*Aster tripolium (Rayless)*	Rayless Sea Aster	**2**	Q200	SM17
Warham ND2D	*Atriplex portulacoides*	Sea-purslane	**6**		
Warham ND2D	*Elytrigia repens*	Common Couch	**4**		
Warham ND2D	*Festuca rubra*	Red Fescue	**5**		
Warham ND2D	*Limonium vulgare*	Common Sea-lavender	**4**		
Warham ND2D	*Puccinellia maritima*	Common Saltmarsh-grass	**6**		
Warham ND2D	*Seriphidium maritimum*	Sea Wormwood	**4**		
Warham ND2D	*Armeria maritima*	Thrift	**5**	Q201	SM13c
Warham ND2D	*Aster tripolium (Rayless)*	Rayless Sea Aster	**2**		
Warham ND2D	*Atriplex portulacoides*	Sea-purslane	**4**		
Warham ND2D	*Bare mud*		**2**		
Warham ND2D	*Limonium vulgare*	Common Sea-lavender	**5**		
Warham ND2D	*Plantago maritima*	Sea Plantain	**5**		
Warham ND2D	*Puccinellia maritima*	Common Saltmarsh-grass	**4**		
Warham ND2D	*Salicornia europaea* agg.	Common Glasswort	**3**		
Warham ND2D	*Triglochin maritimum*	Sea Arrowgrass	**4**		

Site Name	Scientific Name	Common Name	Domin	Sample ID	NVC Type
Warham ND2D	*Armeria maritima*	Thrift	**5**	Q202	SM13c
Warham ND2D	*Aster tripolium (Rayless)*	Rayless Sea Aster	**1**		
Warham ND2D	*Atriplex portulacoides*	Sea-purslane	**3**		
Warham ND2D	*Bare mud*		**2**		
Warham ND2D	*Limonium vulgare*	Common Sea-lavender	**6**		
Warham ND2D	*Plantago maritima*	Sea Plantain	**4**		
Warham ND2D	*Puccinellia maritima*	Common Saltmarsh-grass	**4**		
Warham ND2D	*Salicornia europaea* agg.	Common Glasswort	**3**		
Warham ND2D	*Suaeda maritima*	Annual Sea-blite	**2**		
Warham ND2D	*Triglochin maritimum*	Sea Arrowgrass	**3**		
Warham ND2D	*Armeria maritima*	Thrift	**3**	Q203	SM17
Warham ND2D	*Atriplex portulacoides*	Sea-purslane	**6**		
Warham ND2D	*Elytrigia repens*	Common Couch	**4**		
Warham ND2D	*Festuca rubra*	Red Fescue	**5**		
Warham ND2D	*Limonium vulgare*	Common Sea-lavender	**4**		
Warham ND2D	*Plantago maritima*	Sea Plantain	**2**		
Warham ND2D	*Puccinellia maritima*	Common Saltmarsh-grass	**6**		
Warham ND2D	*Seriphidium maritimum*	Sea Wormwood	**3**		
Warham ND2D	*Suaeda maritima*	Annual Sea-blite	**3**		
Warham ND2D	*Suaeda vera*	Shrubby Sea-blite	**3**		

Site Name	Scientific Name	Common Name	Domin	Sample ID	NVC Type
Warham ND2D	*Aster tripolium (Rayless)*	Rayless Sea Aster	**1**	Q204	SM17
Warham ND2D	*Atriplex portulacoides*	Sea-purslane	**5**		
Warham ND2D	*Elytrigia repens*	Common Couch	**3**		
Warham ND2D	*Festuca rubra*	Red Fescue	**4**		
Warham ND2D	*Limonium vulgare*	Common Sea-lavender	**5**		
Warham ND2D	*Plantago maritima*	Sea Plantain	**2**		
Warham ND2D	*Puccinellia maritima*	Common Saltmarsh-grass	**7**		
Warham ND2D	*Seriphidium maritimum*	Sea Wormwood	**5**		
Warham ND2D	*Suaeda maritima*	Annual Sea-blite	**2**		
Warham ND2D	*Atriplex portulacoides*	Sea-purslane	**6**	Q205	SM25
Warham ND2D	*Bare mud*	Bare mud	**2**		
Warham ND2D	*Elytrigia repens*	Common Couch	**9**		
Warham ND2D	*Seriphidium maritimum*	Sea Wormwood	**5**		
Warham ND2D	*Suaeda vera*	Shrubby Sea-blite	**5**		
Warham ND2D	*Atriplex portulacoides*	Sea-purslane	**8**	Q206	SM14c
Warham ND2D	*Elytrigia repens*	Common Couch	**4**		
Warham ND2D	*Festuca rubra*	Red Fescue	**4**		
Warham ND2D	*Limonium vulgare*	Common Sea-lavender	**4**		
Warham ND2D	*Puccinellia maritima*	Common Saltmarsh-grass	**4**		
Warham ND2D	*Suaeda maritima*	Annual Sea-blite	**2**		
Warham ND2D	*Atriplex portulacoides*	Sea-purslane	**4**	Q207	SM25
Warham ND2D	*Elytrigia repens*	Common Couch	**8**		
Warham ND2D	*Suaeda vera*	Shrubby Sea-blite	**7**		

Site Name	Scientific Name	Common Name	Domin	Sample ID	NVC Type
Warham ND2D	*Aster tripolium (Rayless)*	Rayless Sea Aster	**4**	Q208	SM13a
Warham ND2D	*Atriplex portulacoides*	Sea-purslane	**5**		
Warham ND2D	*Limonium vulgare*	Common Sea-lavender	**4**		
Warham ND2D	*Puccinellia maritima*	Common Saltmarsh-grass	**9**		
Warham ND2D	*Salicornia europaea* agg.	Common Glasswort	**3**		
Warham ND2D	*Suaeda maritima*	Annual Sea-blite	**4**		
Warham ND2D	*Aster tripolium (Rayless)*	Rayless Sea Aster	**3**	Q209	SM14a
Warham ND2D	*Atriplex portulacoides*	Sea-purslane	**9**		
Warham ND2D	*Suaeda maritima*	Annual Sea-blite	**5**		
Warham ND2D	*Aster tripolium (Rayless)*	Rayless Sea Aster	**7**	Q210	SM12a
Warham ND2D	*Bare mud*		**4**		
Warham ND2D	*Puccinellia maritima*	Common Saltmarsh-grass	**3**		
Warham ND2D	*Salicornia europaea* agg.	Common Glasswort	**2**		
Warham ND2D	*Suaeda maritima*	Annual Sea-blite	**5**		
Warham ND2D	*Aster tripolium (Rayless)*	Rayless Sea Aster	**4**	Q211	SM13a
Warham ND2D	*Limonium vulgare*	Common Sea-lavender	**4**		
Warham ND2D	*Puccinellia maritima*	Common Saltmarsh-grass	**10**		
Warham ND2D	*Suaeda maritima*	Annual Sea-blite	**2**		
Warham ND2D	*Aster tripolium (Rayless)*	Rayless Sea Aster	**3**	Q212	SM13a
Warham ND2D	*Atriplex portulacoides*	Sea-purslane	**5**		
Warham ND2D	*Limonium vulgare*	Common Sea-lavender	**3**		
Warham ND2D	*Puccinellia maritima*	Common Saltmarsh-grass	**9**		
Warham ND2D	*Suaeda maritima*	Annual Sea-blite	**2**		

Site Name	Scientific Name	Common Name	Domin	Sample ID	NVC Type
Warham ND2D	*Aster tripolium (Rayless)*	Rayless Sea Aster	**1**	Q213	SM14a
Warham ND2D	*Atriplex portulacoides*	Sea-purslane	**9**		
Warham ND2D	*Puccinellia maritima*	Common Saltmarsh-grass	**4**		
Warham ND2D	*Suaeda maritima*	Annual Sea-blite	**3**		
Warham ND2D	*Aster tripolium (Rayless)*	Rayless Sea Aster	**2**	Q214	SM14a
Warham ND2D	*Atriplex portulacoides*	Sea-purslane	**10**		
Warham ND2D	*Puccinellia maritima*	Common Saltmarsh-grass	**3**		
Warham ND2D	*Suaeda maritima*	Annual Sea-blite	**3**		
Warham ND2D	*Aster tripolium (Rayless)*	Rayless Sea Aster	**2**	Q215	SM14a
Warham ND2D	*Atriplex portulacoides*	Sea-purslane	**9**		
Warham ND2D	*Puccinellia maritima*	Common Saltmarsh-grass	**4**		
Warham ND2D	*Suaeda maritima*	Annual Sea-blite	**4**		
Warham ND2D	*Aster tripolium (Rayless)*	Rayless Sea Aster	**5**	Q216	SM11
Warham ND2D	*Atriplex portulacoides*	Sea-purslane	**4**		
Warham ND2D	*Limonium vulgare*	Common Sea-lavender	**5**		
Warham ND2D	*Puccinellia maritima*	Common Saltmarsh-grass	**4**		
Warham ND2D	*Salicornia europaea* agg.	Common Glasswort	**4**		
Warham ND2D	*Spartina anglica*	Common Cord-grass	**4**		
Warham ND2D	*Suaeda maritima*	Annual Sea-blite	**2**		
Warham ND2D	*Triglochin maritimum*	Sea Arrowgrass	**3**		
Warham ND2D	*Aster tripolium (Rayless)*	Rayless Sea Aster	**3**	Q217	SM14a
Warham ND2D	*Atriplex portulacoides*	Sea-purslane	**9**		
Warham ND2D	*Puccinellia maritima*	Common Saltmarsh-grass	**4**		
Warham ND2D	*Suaeda maritima*	Annual Sea-blite	**4**		

Site Name	Scientific Name	Common Name	Domin	Sample ID	NVC Type
Warham ND2D	*Aster tripolium (Rayless)*	Rayless Sea Aster	**2**	Q218	SM6
Warham ND2D	*Atriplex portulacoides*	Sea-purslane	**4**		
Warham ND2D	*Bare mud*		**4**		
Warham ND2D	*Spartina anglica*	Common Cord-grass	**10**		
Warham ND2D	*Bare mud*		**5**	Q219	SM8
Warham ND2D	*Salicornia europaea* agg.	Common Glasswort	**7**		
Warham ND2D	*Suaeda maritima*	Annual Sea-blite	**5**		
Warham ND2D	*Bare mud*		**5**	Q220	SM9
Warham ND2D	*Salicornia europaea* agg.	Common Glasswort	**5**		
Warham ND2D	*Spartina anglica*	Common Cord-grass	**2**		
Warham ND2D	*Suaeda maritima*	Annual Sea-blite	**7**		
Warham ND2D	*Algal Mat*	Algal Mat	**5**	Q221	SM8
Warham ND2D	*Bare mud*	Bare mud	**8**		
Warham ND2D	*Salicornia europaea* agg.	Common Glasswort	**5**		
Warham ND2D	*Spartina anglica*	Common Cord-grass	**2**		
Warham ND2D	*Algal Mat*		**5**	Q222	SM8
Warham ND2D	*Bare mud*	Bare mud	**9**		
Warham ND2D	*Salicornia europaea* agg.	Common Glasswort	**5**		
Warham ND2D	*Algal Mat*	Algal Mat	**3**	Q223	SM8
Warham ND2D	*Bare mud*	Bare mud	**8**		
Warham ND2D	*Salicornia europaea* agg.	Common Glasswort	**5**		
Warham ND2D	*Algal Mat*	Algal Mat	**3**	Q224	SM8
Warham ND2D	*Bare mud*	Bare mud	**9**		
Warham ND2D	*Salicornia europaea* agg.	Common Glasswort	**4**		
Warham ND2D	*Spartina anglica*	Common Cord-grass	**4**		
Warham ND2D	*Suaeda maritima*	Annual Sea-blite	**3**		

Morston N2C4

Site Name	Scientific Name	Common Name	Domin	Sample ID	NVC Type
Morston N2C4	*Algal Mat*	Algal Mat	**2**	Q001	SM14a
Morston N2C4	*Aster tripolium (Rayless)*	Rayless Sea Aster	**2**		
Morston N2C4	*Atriplex portulacoides*	Sea-purslane	**10**		
Morston N2C4	*Limonium vulgare*	Common Sea-lavender	**3**		
Morston N2C4	*Suaeda maritima*	Annual Sea-blite	**4**		
Morston N2C4	*Algal Mat*	Algal Mat	**5**	Q226	SM11
Morston N2C4	*Aster tripolium (Rayless)*	Rayless Sea Aster	**7**		
Morston N2C4	*Bare mud*	Bare mud	**4**		
Morston N2C4	*Salicornia europaea* agg.	Common Glasswort	**3**		
Morston N2C4	*Suaeda maritima*	Annual Sea-blite	**5**		
Morston N2C4	*Aster tripolium (Rayless)*	Rayless Sea Aster	**2**	Q227	SM9
Morston N2C4	*Atriplex portulacoides*	Sea-purslane	**4**		
Morston N2C4	*Bare mud*	Bare mud	**3**		
Morston N2C4	*Dead litter*	Dead litter	**6**		
Morston N2C4	*Plantago maritima*	Sea Plantain	**2**		
Morston N2C4	*Puccinellia maritima*	Common Saltmarsh-grass	**5**		
Morston N2C4	*Suaeda maritima*	Annual Sea-blite	**7**		

Site Name	Scientific Name	Common Name	Domin	Sample ID	NVC Type
Morston N2C4	*Aster tripolium (Rayless)*	Rayless Sea Aster	**3**	Q228	SM14c
Morston N2C4	*Atriplex portulacoides*	Sea-purslane	**6**		
Morston N2C4	*Limonium vulgare*	Common Sea-lavender	**4**		
Morston N2C4	*Plantago maritima*	Sea Plantain	**5**		
Morston N2C4	*Puccinellia maritima*	Common Saltmarsh-grass	**5**		
Morston N2C4	*Salicornia europaea* agg.	Common Glasswort	**2**		
Morston N2C4	*Suaeda maritima*	Annual Sea-blite	**2**		
Morston N2C4	*Triglochin maritimum*	Sea Arrowgrass	**5**		
Morston N2C4	*Algal Mat*	Algal Mat	**3**	Q229	SM13c
Morston N2C4	*Armeria maritima*	Thrift	**4**		
Morston N2C4	*Atriplex portulacoides*	Sea-purslane	**2**		
Morston N2C4	*Bare mud*	Bare mud	**2**		
Morston N2C4	*Limonium vulgare*	Common Sea-lavender	**5**		
Morston N2C4	*Plantago maritima*	Sea Plantain	**7**		
Morston N2C4	*Puccinellia maritima*	Common Saltmarsh-grass	**4**		
Morston N2C4	*Salicornia europaea* agg.	Common Glasswort	**3**		
Morston N2C4	*Suaeda maritima*	Annual Sea-blite	**3**		
Morston N2C4	*Triglochin maritimum*	Sea Arrowgrass	**5**		
Morston N2C4	*Aster tripolium (Rayless)*	Rayless Sea Aster	**4**	Q230	SM14c
Morston N2C4	*Atriplex portulacoides*	Sea-purslane	**8**		
Morston N2C4	*Festuca rubra*	Red Fescue	**4**		
Morston N2C4	*Puccinellia maritima*	Common Saltmarsh-grass	**5**		

Site Name	Scientific Name	Common Name	Domin	Sample ID	NVC Type
Morston N2C4	*Aster tripolium (Rayless)*	Rayless Sea Aster	**3**	Q231	SM28
Morston N2C4	*Atriplex portulacoides*	Sea-purslane	**4**		
Morston N2C4	*Elytrigia repens*	Common Couch	**10**		
Morston N2C4	*Seriphidium maritimum*	Sea Wormwood	**5**		
Morston N2C4	*Algal Mat*	Algal Mat	**1**	Q232	SM13c
Morston N2C4	*Armeria maritima*	Thrift	**6**		
Morston N2C4	*Aster tripolium (Rayless)*	Rayless Sea Aster	**1**		
Morston N2C4	*Atriplex portulacoides*	Sea-purslane	**4**		
Morston N2C4	*Bare mud*	Bare mud	**2**		
Morston N2C4	*Leaf Litter*	Leaf Litter	**2**		
Morston N2C4	*Limonium vulgare*	Common Sea-lavender	**6**		
Morston N2C4	*Puccinellia maritima*	Common Saltmarsh-grass	**2**		
Morston N2C4	*Salicornia europaea* agg.	Common Glasswort	**5**		
Morston N2C4	*Suaeda maritima*	Annual Sea-blite	**3**		
Morston N2C4	*Triglochin maritimum*	Sea Arrowgrass	**2**		
Morston N2C4	*Aster tripolium (Rayless)*	Rayless Sea Aster	**2**	Q233	SM17
Morston N2C4	*Atriplex portulacoides*	Sea-purslane	**8**		
Morston N2C4	*Elytrigia repens*	Common Couch	**4**		
Morston N2C4	*Festuca rubra*	Red Fescue	**5**		
Morston N2C4	*Limonium vulgare*	Common Sea-lavender	**2**		
Morston N2C4	*Plantago maritima*	Sea Plantain	**2**		
Morston N2C4	*Puccinellia maritima*	Common Saltmarsh-grass	**6**		
Morston N2C4	*Seriphidium maritimum*	Sea Wormwood	**2**		

Site Name	Scientific Name	Common Name	Domin	Sample ID	NVC Type
Morston N2C4	*Aster tripolium (Rayless)*	Rayless Sea Aster	**2**	Q234	SM14a
Morston N2C4	*Atriplex portulacoides*	Sea-purslane	**8**		
Morston N2C4	*Bare ground*	Bare ground	**1**		
Morston N2C4	*Juncus maritimus*	Sea Rush	**4**		
Morston N2C4	*Puccinellia maritima*	Common Saltmarsh-grass	**5**		
Morston N2C4	*Suaeda maritima*	Annual Sea-blite	**2**		
Morston N2C4	*Atriplex portulacoides*	Sea-purslane	**4**	Q235	SM25
Morston N2C4	*Elytrigia atherica*	Sea Couch	**9**		
Morston N2C4	*Leaf Litter*	Leaf Litter	**5**		
Morston N2C4	*Suaeda vera*	Shrubby Sea-blite	**5**		
Morston N2C4	*Atriplex portulacoides*	Sea-purslane	**6**	Q236	SM25
Morston N2C4	*Elytrigia atherica*	Sea Couch	**8**		
Morston N2C4	*Leaf Litter*	Leaf Litter	**6**		
Morston N2C4	*Suaeda vera*	Shrubby Sea-blite	**6**		
Morston N2C4	*Xanthoria ucrainica*	Lichen	**2**		
Morston N2C4	*Aster tripolium (Rayless)*	Rayless Sea Aster	**2**	Q237	SM14c
Morston N2C4	*Atriplex portulacoides*	Sea-purslane	**8**		
Morston N2C4	*Limonium vulgare*	Common Sea-lavender	**1**		
Morston N2C4	*Plantago maritima*	Sea Plantain	**2**		
Morston N2C4	*Puccinellia maritima*	Common Saltmarsh-grass	**7**		
Morston N2C4	*Suaeda maritima*	Annual Sea-blite	**3**		
Morston N2C4	*Atriplex portulacoides*	Sea-purslane	**5**	Q238	SM25
Morston N2C4	*Elytrigia repens*	Common Couch	**8**		
Morston N2C4	*Leaf Litter*	Leaf Litter	**4**		
Morston N2C4	*Suaeda vera*	Shrubby Sea-blite	**5**		

Site Name	Scientific Name	Common Name	Domin	Sample ID	NVC Type
Morston N2C4	*Atriplex portulacoides*	Sea-purslane	**8**	Q239	SM18a
Morston N2C4	*Elytrigia repens*	Common Couch	**3**		
Morston N2C4	*Juncus maritimus*	Sea Rush	**6**		
Morston N2C4	*Leaf Litter*	Leaf Litter	**4**		
Morston N2C4	*Limonium vulgare*	Common Sea-lavender	**2**		
Morston N2C4	*Seriphidium maritimum*	Sea Wormwood	**2**		
Morston N2C4	*Suaeda maritima*	Annual Sea-blite	**2**		
Morston N2C4	*Atriplex portulacoides*	Sea-purslane	**4**	Q240	SM25
Morston N2C4	*Elytrigia repens*	Common Couch	**9**		
Morston N2C4	*Juncus maritimus*	Sea Rush	**3**		
Morston N2C4	*Leaf Litter*	Leaf Litter	**6**		
Morston N2C4	*Suaeda vera*	Shrubby Sea-blite	**2**		
Morston N2C4	*Algal Mat*	Algal Mat	**2**	Q241	SM13c
Morston N2C4	*Armeria maritima*	Thrift	**5**		
Morston N2C4	*Aster tripolium (Rayless)*	Rayless Sea Aster	**6**		
Morston N2C4	*Juncus maritimus*	Sea Rush	**4**		
Morston N2C4	*Limonium vulgare*	Common Sea-lavender	**6**		
Morston N2C4	*Plantago maritima*	Sea Plantain	**5**		
Morston N2C4	*Puccinellia maritima*	Common Saltmarsh-grass	**3**		
Morston N2C4	*Salicornia europaea* agg.	Common Glasswort	**3**		
Morston N2C4	*Spergularia media*	Greater Sea-spurrey	**2**		
Morston N2C4	*Suaeda maritima*	Annual Sea-blite	**2**		
Morston N2C4	*Triglochin maritimum*	Sea Arrowgrass	**3**		

Site Name	Scientific Name	Common Name	Domin	Sample ID	NVC Type
Morston N2C4	*Aster tripolium (Rayless)*	Rayless Sea Aster	**4**	Q242	SM18a
Morston N2C4	*Bare mud*	Bare mud	**2**		
Morston N2C4	*Juncus maritimus*	Sea Rush	**7**		
Morston N2C4	*Limonium vulgare*	Common Sea-lavender	**4**		
Morston N2C4	*Plantago maritima*	Sea Plantain	**8**		
Morston N2C4	*Agrostis stolonifera*	Creeping Bent	**7**	Q243	SM16d
Morston N2C4	*Armeria maritima*	Thrift	**4**		
Morston N2C4	*Carex extensa*	Long-bracted Sedge	**2**		
Morston N2C4	*Elytrigia repens*	Common Couch	**7**		
Morston N2C4	*Festuca rubra*	Red Fescue	**7**		
Morston N2C4	*Juncus gerardii*	Saltmarsh Rush	**3**		
Morston N2C4	*Plantago coronopus*	Buck's-horn Plantain	**2**		
Morston N2C4	*Aster tripolium*	Sea Aster	**5**	Q244	SM16b
Morston N2C4	*Atriplex portulacoides*	Sea-purslane	**4**		
Morston N2C4	*Bare mud*	Bare mud	**3**		
Morston N2C4	*Elytrigia repens*	Common Couch	**4**		
Morston N2C4	*Juncus gerardii*	Saltmarsh Rush	**5**		
Morston N2C4	*Limonium vulgare*	Common Sea-lavender	**2**		
Morston N2C4	*Plantago maritima*	Sea Plantain	**4**		
Morston N2C4	*Aster tripolium*	Sea Aster	**1**	Q245	SM6
Morston N2C4	*Bare mud*	Bare mud	**5**		
Morston N2C4	*Salicornia europaea* agg.	Common Glasswort	**3**		
Morston N2C4	*Spartina anglica*	Common Cord-grass	**8**		
Morston N2C4	*Suaeda maritima*	Annual Sea-blite	**3**		

Site Name	Scientific Name	Common Name	Domin	Sample ID	NVC Type
Morston N2C4	*Aster tripolium*	Sea Aster	**2**	Q246	SM6
Morston N2C4	*Bare mud*	Bare mud	**5**		
Morston N2C4	*Spartina anglica*	Common Cord-grass	**9**		
Morston N2C4	*Suaeda maritima*	Annual Sea-blite	**3**		
Morston N2C4	*Algal Mat*	Algal Mat	**6**	Q247	SM8
Morston N2C4	*Aster tripolium*	Sea Aster	**1**		
Morston N2C4	*Bare mud*	Bare mud	**9**		
Morston N2C4	*Bostrychia scorpioides*	Red Algae	**1**		
Morston N2C4	*Salicornia europaea* agg.	Common Glasswort	**6**		
Morston N2C4	*Spartina anglica*	Common Cord-grass	**2**		
Morston N2C4	*Suaeda maritima*	Annual Sea-blite	**3**		
Morston N2C4	*Ulva lactuca*	Sea Lettuce	**1**		

Morston N2C3

Site Name	*Scientific Name*	Common Name	Domin	Sample ID	NVC Type
Morston N2C3	*Algal Mat*	Algal Mat	**4**	Q248a	SM6
Morston N2C3	*Bare mud*	Bare mud	**5**		
Morston N2C3	*Spartina anglica*	Common Cord-grass	**9**		
Morston N2C3	*Algal Mat*	Algal Mat	**5**	Q248b	SM6
Morston N2C3	*Aster tripolium (Rayless)*	Rayless Sea Aster	**1**		
Morston N2C3	*Bare mud*	Bare mud	**7**		
Morston N2C3	*Salicornia europaea* agg.	Common Glasswort	**5**		
Morston N2C3	*Spartina anglica*	Common Cord-grass	**9**		

Site Name	*Scientific Name*	Common Name	Domin	Sample ID	NVC Type
Morston N2C3	*Algal Mat*	Algal Mat	**4**	Q249a	SM6
Morston N2C3	*Aster tripolium (Rayless)*	Rayless Sea Aster	**2**		
Morston N2C3	*Atriplex portulacoides*	Sea-purslane	**4**		
Morston N2C3	*Bare mud*	Bare mud	**5**		
Morston N2C3	*Spartina anglica*	Common Cord-grass	**9**		
Morston N2C3	*Algal Mat*	Algal Mat	**4**	Q249b	SM6
Morston N2C3	*Aster tripolium (Rayless)*	Rayless Sea Aster	**2**		
Morston N2C3	*Bare mud*	Bare mud	**7**		
Morston N2C3	*Salicornia europaea* agg.	Common Glasswort	**2**		
Morston N2C3	*Spartina anglica*	Common Cord-grass	**9**		
Morston N2C3	*Suaeda maritima*	Annual Sea-blite	**4**		
Morston N2C3	*Aster tripolium (Rayless)*	Rayless Sea Aster	**3**	Q250a	SM9
Morston N2C3	*Bare mud*	Bare mud	**7**		
Morston N2C3	*Salicornia europaea* agg.	Common Glasswort	**5**		
Morston N2C3	*Suaeda maritima*	Annual Sea-blite	**6**		
Morston N2C3	*Atriplex portulacoides*	Sea-purslane	**5**	Q250b	SM9
Morston N2C3	*Bare mud*	Bare mud	**8**		
Morston N2C3	*Salicornia europaea* agg.	Common Glasswort	**5**		
Morston N2C3	*Spartina anglica*	Common Cord-grass	**3**		
Morston N2C3	*Suaeda maritima*	Annual Sea-blite	**6**		
Morston N2C3	*Atriplex portulacoides*	Sea-purslane	**9**	Q251a	SM14a
Morston N2C3	*Bare mud*	Bare mud	**4**		
Morston N2C3	*Limonium vulgare*	Common Sea-lavender	**3**		
Morston N2C3	*Salicornia europaea* agg.	Common Glasswort	**3**		
Morston N2C3	*Suaeda maritima*	Annual Sea-blite	**4**		

Site Name	*Scientific Name*	Common Name	Domin	Sample ID	NVC Type
Morston N2C3	*Aster tripolium (Rayless)*	Rayless Sea Aster	**2**	Q251b	SM14a
Morston N2C3	*Atriplex portulacoides*	Sea-purslane	**10**		
Morston N2C3	*Salicornia europaea* agg.	Common Glasswort	**3**		
Morston N2C3	*Suaeda maritima*	Annual Sea-blite	**4**		
Morston N2C3	*Atriplex portulacoides*	Sea-purslane	**7**	Q252a	SM14c
Morston N2C3	*Bare mud*	Bare mud	**5**		
Morston N2C3	*Limonium vulgare*	Common Sea-lavender	**5**		
Morston N2C3	*Puccinellia maritima*	Common Saltmarsh-grass	**4**		
Morston N2C3	*Salicornia europaea* agg.	Common Glasswort	**6**		
Morston N2C3	*Spartina anglica*	Common Cord-grass	**4**		
Morston N2C3	*Aster tripolium (Rayless)*	Rayless Sea Aster	**2**	Q252b	SM14c
Morston N2C3	*Atriplex portulacoides*	Sea-purslane	**7**		
Morston N2C3	*Limonium vulgare*	Common Sea-lavender	**7**		
Morston N2C3	*Puccinellia maritima*	Common Saltmarsh-grass	**4**		
Morston N2C3	*Salicornia europaea* agg.	Common Glasswort	**2**		
Morston N2C3	*Spartina anglica*	Common Cord-grass	**5**		
Morston N2C3	*Suaeda maritima*	Annual Sea-blite	**4**		
Morston N2C3	*Triglochin maritimum*	Sea Arrowgrass	**2**		
Morston N2C3	*Aster tripolium (Rayless)*	Rayless Sea Aster	**4**	Q253a	SM14a
Morston N2C3	*Atriplex portulacoides*	Sea-purslane	**9**		
Morston N2C3	*Bare mud*	Bare mud	**3**		
Morston N2C3	*Limonium vulgare*	Common Sea-lavender	**11**		
Morston N2C3	*Salicornia europaea* agg.	Common Glasswort	**2**		
Morston N2C3	*Suaeda maritima*	Annual Sea-blite	**2**		

Site Name	*Scientific Name*	Common Name	Domin	Sample ID	NVC Type
Morston N2C3	*Algal Mat*	Algal Mat	**2**	Q253b	SM14a
Morston N2C3	*Aster tripolium (Rayless)*	Rayless Sea Aster	**2**		
Morston N2C3	*Atriplex portulacoides*	Sea-purslane	**10**		
Morston N2C3	*Bare mud*	Bare mud	**2**		
Morston N2C3	*Puccinellia maritima*	Common Saltmarsh-grass	**4**		
Morston N2C3	*Salicornia europaea* agg.	Common Glasswort	**2**		
Morston N2C3	*Suaeda maritima*	Annual Sea-blite	**4**		
Morston N2C3	*Aster tripolium (Rayless)*	Rayless Sea Aster	**4**	Q254a	SM14c
Morston N2C3	*Aster tripolium (Rayless)*	Rayless Sea Aster	**4**		
Morston N2C3	*Atriplex portulacoides*	Sea-purslane	**7**		
Morston N2C3	*Bare mud*	Bare mud	**4**		
Morston N2C3	*Limonium vulgare*	Common Sea-lavender	**5**		
Morston N2C3	*Salicornia europaea* agg.	Common Glasswort	**4**		
Morston N2C3	*Suaeda maritima*	Annual Sea-blite	**4**		
Morston N2C3	*Triglochin maritimum*	Sea Arrowgrass	**2**		
Morston N2C3	*Algal Mat*	Algal Mat	**4**	Q254b	SM14c
Morston N2C3	*Aster tripolium (Rayless)*	Rayless Sea Aster	**3**		
Morston N2C3	*Atriplex portulacoides*	Sea-purslane	**7**		
Morston N2C3	*Limonium vulgare*	Common Sea-lavender	**8**		
Morston N2C3	*Puccinellia maritima*	Common Saltmarsh-grass	**7**		
Morston N2C3	*Salicornia europaea* agg.	Common Glasswort	**6**		
Morston N2C3	*Seriphidium maritimum*	Sea Wormwood	**4**		
Morston N2C3	*Suaeda maritima*	Annual Sea-blite	**5**		

Site Name	*Scientific Name*	Common Name	Domin	Sample ID	NVC Type
Morston N2C3	*Bare mud*	Bare mud	**6**	Q255a	SM13c
Morston N2C3	*Limonium vulgare*	Common Sea-lavender	**5**		
Morston N2C3	*Puccinellia maritima*	Common Saltmarsh-grass	**3**		
Morston N2C3	*Salicornia europaea* agg.	Common Glasswort	**5**		
Morston N2C3	*Suaeda maritima*	Annual Sea-blite	**3**		
Morston N2C3	*Triglochin maritimum*	Sea Arrowgrass	**7**		
Morston N2C3	*Algal Mat*	Algal Mat	**3**	Q255b	SM13c
Morston N2C3	*Atriplex portulacoides*	Sea-purslane	**3**		
Morston N2C3	*Limonium vulgare*	Common Sea-lavender	**8**		
Morston N2C3	*Puccinellia maritima*	Common Saltmarsh-grass	**6**		
Morston N2C3	*Salicornia europaea* agg.	Common Glasswort	**3**		
Morston N2C3	*Suaeda maritima*	Annual Sea-blite	**5**		
Morston N2C3	*Triglochin maritimum*	Sea Arrowgrass	**6**		
Morston N2C3	*Aster tripolium (Rayless)*	Rayless Sea Aster	**4**	Q256a	SM14c
Morston N2C3	*Atriplex portulacoides*	Sea-purslane	**8**		
Morston N2C3	*Limonium vulgare*	Common Sea-lavender	**1**		
Morston N2C3	*Puccinellia maritima*	Common Saltmarsh-grass	**6**		
Morston N2C3	*Seriphidium maritimum*	Sea Wormwood	**3**		
Morston N2C3	*Suaeda maritima*	Annual Sea-blite	**7**		
Morston N2C3	*Aster tripolium (Rayless)*	Rayless Sea Aster	**2**	Q256b	SM14c
Morston N2C3	*Atriplex portulacoides*	Sea-purslane	**8**		
Morston N2C3	*Limonium vulgare*	Common Sea-lavender	**6**		
Morston N2C3	*Puccinellia maritima*	Common Saltmarsh-grass	**8**		
Morston N2C3	*Seriphidium maritimum*	Sea Wormwood	**3**		
Morston N2C3	*Suaeda maritima*	Annual Sea-blite	**3**		

Site Name	*Scientific Name*	Common Name	Domin	Sample ID	NVC Type
Morston N2C3	*Armeria maritima*	Thrift	**5**	Q257a	SM13c
Morston N2C3	*Atriplex portulacoides*	Sea-purslane	**4**		
Morston N2C3	*Limonium vulgare*	Common Sea-lavender	**4**		
Morston N2C3	*Plantago maritima*	Sea Plantain	**5**		
Morston N2C3	*Puccinellia maritima*	Common Saltmarsh-grass	**4**		
Morston N2C3	*Salicornia europaea* agg.	Common Glasswort	**3**		
Morston N2C3	*Suaeda maritima*	Annual Sea-blite	**2**		
Morston N2C3	*Triglochin maritimum*	Sea Arrowgrass	**4**		
Morston N2C3	*Armeria maritima*	Thrift	**7**	Q257b	SM13c
Morston N2C3	*Atriplex portulacoides*	Sea-purslane	**4**		
Morston N2C3	*Bare mud*	Bare mud	**4**		
Morston N2C3	*Limonium vulgare*	Common Sea-lavender	**8**		
Morston N2C3	*Puccinellia maritima*	Common Saltmarsh-grass	**5**		
Morston N2C3	*Salicornia europaea* agg.	Common Glasswort	**4**		
Morston N2C3	*Suaeda maritima*	Annual Sea-blite	**4**		
Morston N2C3	*Triglochin maritimum*	Sea Arrowgrass	**7**		
Morston N2C3	*Aster tripolium (Rayless)*	Rayless Sea Aster	**5**	Q258a	SM13c
Morston N2C3	*Limonium vulgare*	Common Sea-lavender	**6**		
Morston N2C3	*Puccinellia maritima*	Common Saltmarsh-grass	**4**		
Morston N2C3	*Salicornia europaea* agg.	Common Glasswort	**7**		
Morston N2C3	*Spartina anglica*	Common Cord-grass	**3**		
Morston N2C3	*Suaeda maritima*	Annual Sea-blite	**2**		
Morston N2C3	*Triglochin maritimum*	Sea Arrowgrass	**3**		

Site Name	*Scientific Name*	Common Name	Domin	Sample ID	NVC Type
Morston N2C3	*Algal Mat*	Algal Mat	**3**	Q258b	SM13c
Morston N2C3	*Aster tripolium (Rayless)*	Rayless Sea Aster	**3**		
Morston N2C3	*Atriplex portulacoides*	Sea-purslane	**7**		
Morston N2C3	*Bare mud*	Bare mud	**3**		
Morston N2C3	*Limonium vulgare*	Common Sea-lavender	**8**		
Morston N2C3	*Puccinellia maritima*	Common Saltmarsh-grass	**4**		
Morston N2C3	*Salicornia europaea* agg.	Common Glasswort	**5**		
Morston N2C3	*Spartina anglica*	Common Cord-grass	**4**		
Morston N2C3	*Suaeda maritima*	Annual Sea-blite	**4**		
Morston N2C3	*Triglochin maritimum*	Sea Arrowgrass	**6**		
Morston N2C3	*Aster tripolium (Rayless)*	Rayless Sea Aster	**4**	Q259a	SM13a
Morston N2C3	*Atriplex portulacoides*	Sea-purslane	**3**		
Morston N2C3	*Limonium vulgare*	Common Sea-lavender	**5**		
Morston N2C3	*Puccinellia maritima*	Common Saltmarsh-grass	**7**		
Morston N2C3	*Spergularia media*	Greater Sea-spurrey	**2**		
Morston N2C3	*Suaeda maritima*	Annual Sea-blite	**5**		
Morston N2C3	*Aster tripolium (Rayless)*	Rayless Sea Aster	**4**	Q259b	SM13a
Morston N2C3	*Atriplex portulacoides*	Sea-purslane	**5**		
Morston N2C3	*Limonium vulgare*	Common Sea-lavender	**4**		
Morston N2C3	*Puccinellia maritima*	Common Saltmarsh-grass	**9**		
Morston N2C3	*Salicornia europaea* agg.	Common Glasswort	**2**		
Morston N2C3	*Seriphidium maritimum*	Sea Wormwood	**2**		
Morston N2C3	*Suaeda maritima*	Annual Sea-blite	**4**		
Morston N2C3	*Triglochin maritimum*	Sea Arrowgrass	**2**		

Site Name	*Scientific Name*	Common Name	Domin	Sample ID	NVC Type
Morston N2C3	*Atriplex portulacoides*	Sea-purslane	**10**	Q260a	SM14a
Morston N2C3	*Bare mud*	Bare mud	**3**		
Morston N2C3	*Puccinellia maritima*	Common Saltmarsh-grass	**3**		
Morston N2C3	*Seriphidium maritimum*	Sea Wormwood	**3**		
Morston N2C3	*Suaeda maritima*	Annual Sea-blite	**3**		
Morston N2C3	*Aster tripolium (Rayless)*	Rayless Sea Aster	**4**	Q260b	SM14a
Morston N2C3	*Atriplex portulacoides*	Sea-purslane	**8**		
Morston N2C3	*Elytrigia repens*	Common Couch	**3**		
Morston N2C3	*Puccinellia maritima*	Common Saltmarsh-grass	**7**		
Morston N2C3	*Seriphidium maritimum*	Sea Wormwood	**5**		
Morston N2C3	*Suaeda maritima*	Annual Sea-blite	**4**		
Morston N2C3	*Suaeda vera*	Shrubby Sea-blite	**4**		
Morston N2C3	*Atriplex portulacoides*	Sea-purslane	**9**	Q261a	SM25
Morston N2C3	*Elytrigia repens*	Common Couch	**5**		
Morston N2C3	*Suaeda vera*	Shrubby Sea-blite	**4**		
Morston N2C3	*Atriplex portulacoides*	Sea-purslane	**9**	Q261b	SM25
Morston N2C3	*Elytrigia repens*	Common Couch	**6**		
Morston N2C3	*Seriphidium maritimum*	Sea Wormwood	**7**		
Morston N2C3	*Aster tripolium*	Sea Aster	**2**	Q262a	SM17
Morston N2C3	*Atriplex portulacoides*	Sea-purslane	**8**		
Morston N2C3	*Festuca rubra*	Red Fescue	**4**		
Morston N2C3	*Limonium vulgare*	Common Sea-lavender	**3**		
Morston N2C3	*Puccinellia maritima*	Common Saltmarsh-grass	**5**		
Morston N2C3	*Seriphidium maritimum*	Sea Wormwood	**3**		

Site Name	*Scientific Name*	Common Name	Domin	Sample ID	NVC Type
Morston N2C3	*Atriplex portulacoides*	Sea-purslane	**9**	Q262b	SM17
Morston N2C3	*Elytrigia repens*	Common Couch	**4**		
Morston N2C3	*Festuca rubra*	Red Fescue	**6**		
Morston N2C3	*Puccinellia maritima*	Common Saltmarsh-grass	**7**		
Morston N2C3	*Seriphidium maritimum*	Sea Wormwood	**5**		
Morston N2C3	*Aster tripolium (Rayless)*	Rayless Sea Aster	**4**	Q263a	SM14c
Morston N2C3	*Atriplex portulacoides*	Sea-purslane	**6**		
Morston N2C3	*Bare mud*	Bare mud	**4**		
Morston N2C3	*Limonium vulgare*	Common Sea-lavender	**3**		
Morston N2C3	*Puccinellia maritima*	Common Saltmarsh-grass	**4**		
Morston N2C3	*Salicornia europaea* agg.	Common Glasswort	**3**		
Morston N2C3	*Suaeda maritima*	Annual Sea-blite	**4**		
Morston N2C3	*Aster tripolium (Rayless)*	Rayless Sea Aster	**2**	Q263b	SM14c
Morston N2C3	*Atriplex portulacoides*	Sea-purslane	**8**		
Morston N2C3	*Limonium vulgare*	Common Sea-lavender	**8**		
Morston N2C3	*Puccinellia maritima*	Common Saltmarsh-grass	**5**		
Morston N2C3	*Salicornia europaea* agg.	Common Glasswort	**4**		
Morston N2C3	*Suaeda maritima*	Annual Sea-blite	**4**		
Morston N2C3	*Triglochin maritimum*	Sea Arrowgrass	**4**		

Stiffkey N2D6

Site Name	Scientific Name	Common Name	Domin	Sample ID	NVC Type
Stiffkey N2D6	*Agrostis stolonifera*	Creeping Bent	**5**	Q264	SM28
Stiffkey N2D6	*Arrhenatherum elatius*	False Oat-grass	**5**		
Stiffkey N2D6	*Elytrigia repens*	Common Couch	**8**		
Stiffkey N2D6	*Festuca rubra*	Red Fescue	**6**		
Stiffkey N2D6	*Sonchus arvensis*	Perennial Sow-thistle	**5**		
Stiffkey N2D6	*Atriplex portulacoides*	Sea-purslane	**5**	Q265	SM25
Stiffkey N2D6	*Elytrigia repens*	Common Couch	**3**		
Stiffkey N2D6	*Suaeda vera*	Shrubby Sea-blite	**10**		
Stiffkey N2D6	*Xanthoria ucrainica*	Lichen	**1**		
Stiffkey N2D6	*Atriplex portulacoides*	Sea-purslane	**10**	Q266	SM14a
Stiffkey N2D6	*Elytrigia repens*	Common Couch	**4**		
Stiffkey N2D6	*Salicornia europaea* agg.	Common Glasswort	**2**		
Stiffkey N2D6	*Suaeda maritima*	Annual Sea-blite	**2**		
Stiffkey N2D6	*Suaeda vera*	Shrubby Sea-blite	**4**		
Stiffkey N2D6	*Xanthoria ucrainica*	Lichen	**1**		
Stiffkey N2D6	*Armeria maritima*	Thrift	**7**	Q267	SM13c
Stiffkey N2D6	*Atriplex portulacoides*	Sea-purslane	**2**		
Stiffkey N2D6	*Bare mud*	Bare mud	**2**		
Stiffkey N2D6	*Limonium vulgare*	Common Sea-lavender	**6**		
Stiffkey N2D6	*Plantago maritima*	Sea Plantain	**5**		
Stiffkey N2D6	*Puccinellia maritima*	Common Saltmarsh-grass	**6**		
Stiffkey N2D6	*Salicornia europaea* agg.	Common Glasswort	**3**		
Stiffkey N2D6	*Triglochin maritimum*	Sea Arrowgrass	**7**		

Site Name	Scientific Name	Common Name	Domin	Sample ID	NVC Type
Stiffkey N2D6	*Algal Mat*	Algal Mat	**2**	Q268	SM12a
Stiffkey N2D6	*Aster tripolium*	Sea Aster	**2**		
Stiffkey N2D6	*Aster tripolium (Rayless)*	Rayless Sea Aster	**5**		
Stiffkey N2D6	*Atriplex portulacoides*	Sea-purslane	**6**		
Stiffkey N2D6	*Bare mud*	Bare mud	**3**		
Stiffkey N2D6	*Puccinellia maritima*	Common Saltmarsh-grass	**8**		
Stiffkey N2D6	*Salicornia europaea* agg.	Common Glasswort	**3**		
Stiffkey N2D6	*Spartina anglica*	Common Cord-grass	**2**		
Stiffkey N2D6	*Suaeda maritima*	Annual Sea-blite	**6**		
Stiffkey N2D6	*Atriplex portulacoides*	Sea-purslane	**4**	Q269	SM25
Stiffkey N2D6	*Elytrigia repens*	Common Couch	**9**		
Stiffkey N2D6	*Suaeda vera*	Shrubby Sea-blite	**7**		
Stiffkey N2D6	*Algal Mat*	Algal Mat	**2**	Q270	SM13c
Stiffkey N2D6	*Armeria maritima*	Thrift	**6**		
Stiffkey N2D6	*Bare mud*	Bare mud	**3**		
Stiffkey N2D6	*Festuca rubra*	Red Fescue	**4**		
Stiffkey N2D6	*Limonium vulgare*	Common Sea-lavender	**8**		
Stiffkey N2D6	*Plantago maritima*	Sea Plantain	**7**		
Stiffkey N2D6	*Puccinellia maritima*	Common Saltmarsh-grass	**4**		
Stiffkey N2D6	*Salicornia europaea* agg.	Common Glasswort	**4**		
Stiffkey N2D6	*Triglochin maritimum*	Sea Arrowgrass	**4**		

Site Name	Scientific Name	Common Name	Domin	Sample ID	NVC Type
Stiffkey N2D6	*Aster tripolium (Rayless)*	Rayless Sea Aster	**3**		
Stiffkey N2D6	*Atriplex portulacoides*	Sea-purslane	**6**		
Stiffkey N2D6	*Limonium vulgare*	Common Sea-lavender	**6**		
Stiffkey N2D6	*Puccinellia maritima*	Common Saltmarsh-grass	**8**		
Stiffkey N2D6	*Salicornia europaea* agg.	Common Glasswort	**2**		
Stiffkey N2D6	*Seriphidium maritimum*	Sea Wormwood	**1**		
Stiffkey N2D6	*Suaeda maritima*	Annual Sea-blite	**3**		
Stiffkey N2D6	*Triglochin maritimum*	Sea Arrowgrass	**3**	Q271	SM14c
Stiffkey N2D6	*Armeria maritima*	Thrift	**7**		
Stiffkey N2D6	*Aster tripolium (Rayless)*	Rayless Sea Aster	**1**		
Stiffkey N2D6	*Atriplex portulacoides*	Sea-purslane	**7**		
Stiffkey N2D6	*Limonium vulgare*	Common Sea-lavender	**9**		
Stiffkey N2D6	*Puccinellia maritima*	Common Saltmarsh-grass	**3**		
Stiffkey N2D6	*Salicornia europaea* agg.	Common Glasswort	**3**		
Stiffkey N2D6	*Suaeda maritima*	Annual Sea-blite	**2**		
Stiffkey N2D6	*Triglochin maritimum*	Sea Arrowgrass	**4**	Q272	SM13c
Stiffkey N2D6	*Aster tripolium (Rayless)*	Rayless Sea Aster	**3**		
Stiffkey N2D6	*Atriplex portulacoides*	Sea-purslane	**7**		
Stiffkey N2D6	*Festuca rubra*	Red Fescue	**7**		
Stiffkey N2D6	*Limonium vulgare*	Common Sea-lavender	**6**		
Stiffkey N2D6	*Puccinellia maritima*	Common Saltmarsh-grass	**5**		
Stiffkey N2D6	*Seriphidium maritimum*	Sea Wormwood	**5**		
Stiffkey N2D6	*Suaeda maritima*	Annual Sea-blite	**3**	Q273	SM17

Site Name	Scientific Name	Common Name	Domin	Sample ID	NVC Type
Stiffkey N2D6	*Algal Mat*	Algal Mat	**2**	Q274	SM13c
Stiffkey N2D6	*Armeria maritima*	Thrift	**7**		
Stiffkey N2D6	*Aster tripolium (Rayless)*	Rayless Sea Aster	**1**		
Stiffkey N2D6	*Atriplex portulacoides*	Sea-purslane	**5**		
Stiffkey N2D6	*Bare mud*	Bare mud	**3**		
Stiffkey N2D6	*Limonium vulgare*	Common Sea-lavender	**8**		
Stiffkey N2D6	*Puccinellia maritima*	Common Saltmarsh-grass	**3**		
Stiffkey N2D6	*Salicornia europaea* agg.	Common Glasswort	**3**		
Stiffkey N2D6	*Suaeda maritima*	Annual Sea-blite	**3**		
Stiffkey N2D6	*Triglochin maritimum*	Sea Arrowgrass	**3**		
Stiffkey N2D6	*Aster tripolium (Rayless)*	Rayless Sea Aster	**2**	Q275	SM17
Stiffkey N2D6	*Atriplex portulacoides*	Sea-purslane	**7**		
Stiffkey N2D6	*Festuca rubra*	Red Fescue	**8**		
Stiffkey N2D6	*Puccinellia maritima*	Common Saltmarsh-grass	**5**		
Stiffkey N2D6	*Seriphidium maritimum*	Sea Wormwood	**4**		
Stiffkey N2D6	*Triglochin maritimum*	Sea Arrowgrass	**1**		
Stiffkey N2D6	*Atriplex portulacoides*	Sea-purslane	**7**	Q276	SM17
Stiffkey N2D6	*Bare mud*	Bare mud	**1**		
Stiffkey N2D6	*Festuca rubra*	Red Fescue	**8**		
Stiffkey N2D6	*Limonium vulgare*	Common Sea-lavender	**5**		
Stiffkey N2D6	*Plantago maritima*	Sea Plantain	**4**		
Stiffkey N2D6	*Puccinellia maritima*	Common Saltmarsh-grass	**5**		
Stiffkey N2D6	*Seriphidium maritimum*	Sea Wormwood	**6**		
Stiffkey N2D6	*Triglochin maritimum*	Sea Arrowgrass	**3**		

Site Name	Scientific Name	Common Name	Domin	Sample ID	NVC Type
Stiffkey N2D6	*Algal Mat*	Algal Mat	**4**	Q277	SM13c
Stiffkey N2D6	*Aster tripolium (Rayless)*	Rayless Sea Aster	**3**		
Stiffkey N2D6	*Atriplex portulacoides*	Sea-purslane	**5**		
Stiffkey N2D6	*Bare mud*	Bare mud	**4**		
Stiffkey N2D6	*Limonium vulgare*	Common Sea-lavender	**7**		
Stiffkey N2D6	*Salicornia europaea* agg.	Common Glasswort	**4**		
Stiffkey N2D6	*Seriphidium maritimum*	Sea Wormwood	**1**		
Stiffkey N2D6	*Suaeda maritima*	Annual Sea-blite	**4**		
Stiffkey N2D6	*Triglochin maritimum*	Sea Arrowgrass	**3**		
Stiffkey N2D6	*Algal Mat*	Algal Mat	**4**	Q278	SM8
Stiffkey N2D6	*Bare sand*	Bare sand	**6**		
Stiffkey N2D6	*Salicornia europaea* agg.	Common Glasswort	**7**		
Stiffkey N2D6	*Suaeda maritima*	Annual Sea-blite	**2**		
Stiffkey N2D6	*Atriplex portulacoides*	Sea-purslane	**1**	Q279	SM28
Stiffkey N2D6	*Bare sand*	Bare sand	**8**		
Stiffkey N2D6	*Elytrigia repens*	Common Couch	**7**		

6.2 **Target Notes**

Site Name	TN	Description	Position
Brancaster (North) N1C7	TN001	Change from SM13c to SM14a at creek edges. SM14c in wider areas (3/7)	N52.97402 E0.65116
Brancaster (North) N1C7	TN002	Change to SM13c in flat areas with unvegetated pans.	N52.97351 E0.65095
Brancaster (North) N1C7	TN003	Change to SM14c and SM14a (3/7)	N52.97326 E0.65082
Brancaster (North) N1C7	TN004	Large creek, retaining water, Suaeda maritima at banks and Atriplex portulacoides	N52.97273 E0.65069
Brancaster (North) N1C7	TN005	Otherside of 'the creek'. SM14c	N52.97262 E0.65066
Brancaster (North) N1C7	TN006	All SM14c. Including behind	N52.97234 E0.64995
Brancaster (North) N1C7	TN007	This is all actually SM14a. Think i would go with this overall for this area.	N52.97216 E0.64993
Brancaster (North) N1C7	TN008	Lots of shallow dendritic creeks in this area. Very tall Salicornia.	N52.97214 E0.64992
Brancaster (North) N1C7	TN009	This area is all SM14a. Small irregular shaped pans retaining water. Lots of birds overhead including Curlew and Sandpiper.	N52.97159 E0.64988
Brancaster (North) N1C7	TN010	Rayless Aster tripolium in SM14c (pucc)	N52.97138 E0.64973
Brancaster (North) N1C7	TN011	Turf cutting (triangular). Roughly 1m length (per side)	N52.97164 E0.64984
Brancaster (North) N1C7	TN012	Plantago maritima with multiple heads in SM14c.	N52.97157 E0.64895
Brancaster (North) N1C7	TN013	Spartina sp. present (5 individuals) at edge of shallow creek.	N52.97096 E0.64973
Brancaster (North) N1C7	TN014	Spartina anglica increasing. SM6 in the middle (inaccessible).	N52.97079 E0.64991
Brancaster (North) N1C7	TN015	SM14a	N52.97080 E0.64989
Brancaster (North) N1C7	TN016	Spartina anglica, Aster tripolium and Puccinellia maritima in pan. (SM6)	N52.97197 E0.64918
Brancaster (North) N1C7	TN017	Suaeda vera on marsh (SM14a)	N52.97214 E0.64932
Brancaster (North) N1C7	TN018	Change to SM13c	N52.97302 E0.64893
Brancaster (North) N1C7	TN019	Large open pan. Unvegetated. Holding water. And two types of Limonium spp	N52.97301 E0.64849
Brancaster (North) N1C7	TN020	Change to SM14c	N52.97321 E0.64862
Brancaster (North) N1C7	TN021	Oil in creek (SM14c)	N52.97345 E0.64846
Brancaster (North) N1C7	TN022	SM14c	N52.97357 E0.64852
Brancaster (North) N1C7	TN023	SM14c	N52.97360 E0.64845
Brancaster (North) N1C7	TN024	SM14c	N52.97361 E0.64871
Brancaster (North) N1C7	TN025	Change to SM14a on other side of creek	N52.97377 E0.64833
Brancaster (North) N1C7	TN026	Change to SM14c	N52.97381 E0.64842

Site Name	TN	Description	Position
Brancaster (South) N1C7	TN027	Change to S21 and SM18a (5/5)	N52.96622 E0.64858
Brancaster (South) N1C7	TN028	Change to SM14b	N52.96629 E0.64851
Brancaster (South) N1C7	TN029	Large pans (5m) with algae and dirty water. Some pans nearby are not retaining water. No inverts.	N52.96660 E0.64836
Brancaster (South) N1C7	TN030	Change to SM13c.	N52.96676 E0.64850
Brancaster (South) N1C7	TN031	Change to SM14a	N52.96679 E0.64855
Brancaster (South) N1C7	TN032	Change to SM14c. More like SM12a	N52.96715 E0.64844
Brancaster (South) N1C7	TN033	Change to SM14a. Might be an a/c mosaic	N52.96718 E0.64845
Brancaster (South) N1C7	TN034	Change to SM14a and SM13c mosaic (7/3). Pans with the latter.	N52.96762 E0.64873
Burnham N1A1	TN035	Change to SM14c with abund Limonium vulgare and pans.	N52.97129 E0.75577
Burnham N1A1	TN036	Change to SM14a	N52.97170 E0.75555
Burnham N1A1	TN037	Change to SM14c. SM14a band is 1m around the SM25 ridge.	N52.97172 E0.75556
Burnham N1A1	TN038	Change to SM14c. Spartina anglica present. Vegetated creeks and pans with same vegetation.	N52.97288 E0.75589
Burnham N1A1	TN039	Salicornia pan	N52.97307 E0.75593
Burnham N1A1	TN040	Change to SM14c. SM13c with pans, as before.	N52.97331 E0.75599
Burnham N1A1	TN041	Change to SM14a.	N52.97450 E0.75618
Burnham N1A1	TN042	Salicornia on banks of large creek (SM8).	N52.97513 E0.75582
Burnham N1A1	TN043	Change to SM8.	N52.97524 E0.75576
Burnham N1A1	TN044	Change to SM9	N52.97542 E0.75570
Burnham N1A1	TN045	Abundant Limonium vulgare (similar to SM12a) to the east of transect.	N52.97570 E0.75572
Burnham N1A1	TN046	Change to SM8. Shallow pans, unvegetated.	N52.97597 E0.75581
Burnham N1A1	TN047	Change to SM9	N52.97612 E0.75578
Burnham N1A1	TN048	Eroded path through SM9	N52.97618 E0.75580
Burnham N1A1	TN049	Change to SM25 with SM9 understorey.	N52.97631 E0.75576
Burnham N1A1	TN050	End of transect. Into sand dunes.	N52.97641 E0.75589
Burnham N1A1	TN051	Limonium binervosum	N52.97630 E0.75427
Burnham N1A1	TN052	Pictures of stone wavebreaks and erosion of marsh. Vertical staging of marsh is approx 0.5m with a sediment step and shingle bank.	N52.97472 E0.75385
Burnham N1A1	TN053	Are stone wave breaks making things worse?	N52.96917 E0.74882
Burnham and Scolt Head N1B3	TN054	Drainage outlet from neighbouring ditch system. Large earth bank surrounding eastside of marsh.	N52.97013 E0.68928

Site Name	TN	Description	Position
Burnham and Scolt Head N1B3	TN055	Lots of frogs around earth bank. Approx 100-500 individuals, mostly young with legs (Size: 1cm) about 5 adults and a toad.	N52.97320 E0.69953
Burnham and Scolt Head N1B3	TN056	Toads on marsh (SM14c). 5 observed.	N52.97342 E0.70205
Burnham and Scolt Head N1B3	TN057	In large creek/estuary mouth. Eroded saltmarsh. Sediment is 0.5m deep.	N52.97728 E0.70304
Burnham and Scolt Head N1B3	TN058	Change to. SM14c. (Looks a bit like SM13c with Atriplex portulacoides).	N52.98621 E0.69995
Burnham and Scolt Head N1B3	TN059	Atri port at creek. Edges.	N52.98595 E0.69986
Burnham and Scolt Head N1B3	TN060	Change to SM14a	N52.98454 E0.70010
Burnham and Scolt Head N1B3	TN061	Vegetated pans with Puccinellia maritima, Aster tripolium and Limonium vulgare. Small open areas of SM13c in SM14a. (2/8)	N52.98409 E0.70003
Burnham and Scolt Head N1B3	TN062	Occasional pans. Small unvegetaed. Creeks frequent. Narrow, 1m deep.	N52.98343 E0.70012
Burnham and Scolt Head N1B3	TN063	Change to SM14c	N52.98330 E0.69997
Burnham and Scolt Head N1B3	TN064	SM14a at creek edges.	N52.98308 E0.70015
Burnham and Scolt Head N1B3	TN065	Change to SM14c	N52.98222 E0.70021
Burnham and Scolt Head N1B3	TN066	Change to SM13c	N52.98183 E0.70023
Burnham and Scolt Head N1B3	TN067	Pelvetia canaliculata (seaweed) free living. In pan with Spar angl	N52.98146 E0.70023
Burnham and Scolt Head N1B3	TN068	Further pans with Pelvetia canaliculata	N52.98127 E0.70012
Burnham and Scolt Head N1B3	TN069	Change to SM14c	N52.98095 E0.70011
Burnham and Scolt Head N1B3	TN070	Change to SM14a	N52.98068 E0.70014
Burnham and Scolt Head N1B3	TN071	SM14a along creeks with SM11. (5/5)	N52.98010 E0.70017
Burnham and Scolt Head N1B3	TN072	Pictures of main estuarine creek. SM8 and SM9 at banks. 2m step but gradual. Sandy base.	N52.97760 E0.70072
Burnham and Scolt Head N1B3	TN073	Transect start again. Small areas of SM1 on shore. First community is SM14c. 3m patches of SM6 also on banks.	N52.97792 E0.69811
Burnham and	TN074	Small pans dominated by algae in SM14c. SM8/9 on island	N52.97785

Site Name	TN	Description	Position
Scolt Head N1B3		in middle.	E0.69808
Burnham and Scolt Head N1B3	TN075	Change to SM28	N52.97770 E0.69797
Burnham and Scolt Head N1B3	TN076	Change to SM14a (with Suaeda vera).	N52.97676 E0.69803
Burnham and Scolt Head N1B3	TN077	Change to SM14c	N52.97618 E0.69826
Burnham and Scolt Head N1B3	TN078	Change to SM14a	N52.97543 E0.69851
Burnham and Scolt Head N1B3	TN079	Change to SM14a at creek edges.	N52.97380 E0.69899
Burnham and Scolt Head N1B3	TN080	Change to SM14c	N52.97349 E0.69909
Burnham and Scolt Head N1B3	TN081	End of transect	N52.97323 E0.69909
Holme N1D6A	TN082	Start of transect. Area is among sand dunes and there is very little saltmarsh.	N52.97122 E0.53785
Holme N1D6A	TN083	Bare sand	N52.97151 E0.53697
Holme N1D6A	TN084	Change to. SM8 and SM9 and SM14a? (Looks a bit like SM13c). SM13a?	N52.97182 E0.53636
Holme N1D6A	TN085	Change to SM10	N52.97203 E0.53617
Holme N1D6A	TN086	End of transect	N52.97295 E0.53581
Holme N1D6A	TN087	Red/purple Salicornia	N52.97237 E0.53474
Holme N1D6A	TN088	The rest of the site is mostly a mosaic of Limonium vulgare/Puccinellia maritima and SM28 with regular patches of Suaeda vera. Tallest veg is Elytrigia repens and Suaeda vera. Abundant Suae vera near banks.	N52.96967 E0.53653
Home N1C2	TN089	Signs of secondary recolonisation by SM11. Spartina anglica increasing.	N52.96953 E0.56874
Home N1C2	TN090	There are two forms of SM11. The one near the banks and creek edges (typical) and a more stable version on the main marsh (with Limonium vulgare, Salicornia and Atriplex portulacoides all abundant).	N52.96971 E0.56875
Home N1C2	TN091	Still no pans present and mostly SM11. Small areas of SM8 present on larger creeks. Spartina anglica still frequent.	N52.97027 E0.56864
Home N1C2	TN092	Pans present near edge of large creek. Algae dominated.	N52.97061 E0.56862
Home N1C2	TN093	Change to SM11 with freq Spartina anglica	N52.97133 E0.56840
Home N1C2	TN094	Spartina anglica increasing. Still SM11	N52.97156 E0.56846
Home N1C2	TN095	End of transect.	N52.97188 E0.56938
Home N1C2	TN096	Suaeda vera areas with Elyt repe.Limonium bellidifolium also present beside path. Signif erosion from path at rear of marsh. SD transition area.	N52.97410 E0.56204

Site Name	TN	Description	Position
Home N1C2	TN097	SM16c area.	N52.97377 E0.56156
Home N1C2	TN098	Large sluce which exits onto marsh. Mixture of SM16c and SM14a in low areas (8/2) and SM25 borders with Elytriga repens and Suaeda vera	N52.97189 E0.56139
Home N1C2	TN099	SM28 with Phragmites australis near path. All SM14a in this area with SM12a at banks (6/4). MG1 and Suaeda vera on ridges.	N52.97035 E0.56252
Home N1C2	TN100	Newt fence set up for development at rear of marsh?. If so, there is no shade or water!	N52.96924 E0.56385
Holkham	TN101	Start of transect. Changed location of first point as it was in a nondescript location. It is now next to the bridle path post. Heavy erosion present, mostly due to horses. Bridle path is very wide (over 30m).	N52.97178 E0.80776
Holkham	TN102	Back barrier marsh is mostly SM8 with heavy water logging. Rabbit grazed and easily damaged under foot.	N52.97195 E0.80825
Holkham	TN103	Damage by horses. Limonium humile present.	N52.97199 E0.80843
Holkham	TN104	Tire damage.	N52.97209 E0.80878
Holkham	TN105	Change to SM8 with lots of Limonium humile	N52.97201 E0.80970
Holkham	TN106	Change to narrow belt of SM8 at edge of eroded path.	N52.97223 E0.81065
Holkham	TN107	Change to SM8/Limonium humile area (5/5)	N52.97226 E0.81068
Holkham	TN108	Change to eroded path.	N52.97247 E0.81110
Holkham	TN109	Change to BS and SM14a (5/5)	N52.97306 E0.81255
Holkham	TN110	Change to previous mosaic	N52.97380 E0.81499
Holkham	TN111	First minor creek encountered water running off into larger creek. Atriplex portulacoides surrounding.	N52.97398 E0.81586
Holkham	TN112	Change to SM14a and SM8 and BS (5/2/3)	N52.97488 E0.81814
Thornham (Transect 1)	TN113	Start of transect. Earth bank at rear with MG1 on bank sides. Upper marsh is present here.	N52.96558 E0.58043
Thornham (Transect 1)	TN114	Change to SM16b and SM13c mosaic (2/8)	N52.96576 E0.58079
Thornham (Transect 1)	TN115	Change to SM13c and SM14c (1/9)	N52.96639 E0.58063
Thornham (Transect 1)	TN116	Change to SM28 and SM13c mosaic (5/5)	N52.96743 E0.58050
Thornham (Transect 1)	TN117	Change to SM13c and SM14c (3/7). Pans present.	N52.96761 E0.58061
Thornham (Transect 1)	TN118	Change to SM14c with creeks, no pans	N52.96771 E0.58068
Thornham (Transect 1)	TN119	Change to SM14a beside creek	N52.96798 E0.58079
Thornham (Transect 1)	TN120	Change to SM14c	N52.96815 E0.58090
Thornham (Transect 1)	TN121	Aster tripolium in vegetated pans. Salicornia at edges of creeks.	N52.96854 E0.58104
Thornham (Transect 1)	TN122	Change to SM11	N52.96864 E0.58110
Thornham (Transect 1)	TN123	Artifically gravelled area	N52.97121 E0.58192

Site Name	TN	Description	Position
Thornham (Transect 2) N1C3	TN124	Change to SM13c and SM14c (3/7)	N52.96932 E0.59034
Thornham (Transect 2) N1C3	TN125	Change to SM14c and SM13c (4/6). SM14a at creek edges.	N52.96890 E0.58985
Thornham (Transect 2) N1C3	TN126	Change to SM14c	N52.96629 E0.58926
Thornham (Transect 2) N1C3	TN127	Change to SM13c and SM14c (9/1)	N52.96592 E0.58907
Thornham (Transect 2) N1C3	TN128	Frequent large shallow pans. SM13c. Curlew recorded	N52.96550 E0.58919
Thornham (Transect 2) N1C3	TN129	Creeks with SM14a to the east	N52.96507 E0.58921
Thornham (Transect 2) N1C3	TN130	Path. With SM14c to the rear. Transition to narrow belt of S4, then earth bank. Areas of SM28 to east and west with Suaeda vera. End of transect.	N52.96462 E0.58912
Stiffkey N2D4	TN131	Change to SM14c	N52.95705 E0.91926
Stiffkey N2D4	TN132	Change to SM13c. Footpath present.	N52.95709 E0.91925
Stiffkey N2D4	TN133	Spartina anglica	N52.95724 E0.91938
Stiffkey N2D4	TN144	Creek, 2 shelves, 2m deep, with Elytrigia repens and Atriplex portulacoides	N52.95844 E0.91927
Stiffkey N2D4	TN145	Change to SM28	N52.95887 E0.91916
Stiffkey N2D4	TN146	Change to SM13c and SM14c	N52.95894 E0.91917
Stiffkey N2D4	TN147	Eroded path with small areas of SM8	N52.95943 E0.91972
Stiffkey N2D4	TN148	Narrow ridge of SM28. Then change to SM17	N52.96068 E0.91928
Stiffkey N2D4	TN149	Change to SM17 and SM13c (6/4)	N52.96075 E0.91936
Stiffkey N2D4	TN150	Salicornia in pans, not retaining water	N52.96096 E0.91952
Stiffkey N2D4	TN151	Train truck in marsh. Buried.	N52.96048 E0.92071
Stiffkey N2D4	TN152	Pictures of footpath erosion	N52.96059 E0.92315
Stiffkey N2D4	TN153	Change to SM13c and SM17 (6/4)	N52.96299 E0.91998
Stiffkey N2D4	TN154	Pictures of Juncus maritimus	N52.96402 E0.91948
Stiffkey N2D4	TN155	Change to SM13c. Species poor bird grazing.	N52.96535 E0.91909
Stiffkey N2D4	TN156	Change to SM9	N52.96622 E0.91991
Stiffkey N2D4	TN157	End of transect. Narrow belt of SM8	N52.96732 E0.91990
Warham ND2D	TN158	Path erosion	N52.95818 E0.89113

Site Name	TN	Description	Position
Warham ND2D	TN159	Change to SM13c and SM25 and SM14c (7/2/1). As present across the whole marsh, SM25 is found beside creeks and channels.	N52.96198 E0.89120
Warham ND2D	TN160	Inverts in pans. Water retained, unvegetated.	N52.96228 E0.89125
Warham ND2D	TN161	Change to SM17 and SM13c and SM25 (5/4/2)	N52.96240 E0.89113
Warham ND2D	TN162	Change to SM17 and SM13c and SM25 (2/4/4)	N52.96357 E0.89121
Warham ND2D	TN163	Change to SM17 and SM13c and SM25 (3/3/4)	N52.96552 E0.89163
Warham ND2D	TN164	Change to SM25	N52.96654 E0.89187
Warham ND2D	TN165	Change to SM13a. Change occurred a few metres south.	N52.96703 E0.89245
Warham ND2D	TN166	Pictures of algae in pan. Dried out and reflooded. All of this area is lower marsh	N52.96855 E0.89368
Warham ND2D	TN167	Change to SM9	N52.97085 E0.89193
Warham ND2D	TN168	End of transect. SM8 until end	N52.97447 E0.89108
Morston N2C4	TN169	Change to SM14a	N52.95794 E0.98246
Morston N2C4	TN170	Change to SM13c and SM14c (5/5)	N52.95852 E0.98253
Morston N2C4	TN171	Lightly fouled water. Inverts present. Algae on edge.	N52.95857 E0.98248
Morston N2C4	TN172	Pictures of Spartina anglica in pan	N52.95951 E0.98257
Morston N2C4	TN173	Change to SM25.	N52.96002 E0.98238
Morston N2C4	TN174	Change to SM13c and SM14c and SM25 (2/3/5)	N52.96023 E0.98146
Morston N2C4	TN175	Pictures of eroded path.	N52.96146 E0.98237
Morston N2C4	TN176	Change to SM25 and SM18a (6/4)	N52.96186 E0.98221
Morston N2C4	TN177	Change to SM17	N52.96208 E0.98210
Morston N2C4	TN178	Change to SM18a	N52.96214 E0.98208
Morston N2C4	TN179	Juncus gerardii. Bees in shingle veg	N52.96266 E0.98242
Morston N2C4	TN180	Shingle bank	N52.96276 E0.98242
Morston N2C4	TN181	Odd community of Aster tripolium and Juncus geradii (5) and SM18a in (5)	N52.96296 E0.98254
Morston N2C4	TN182	Change to SM16d	N52.96307 E0.98252
Morston N2C4	TN183	Change to SM25	N52.96323 E0.98247
Morston N2C4	TN184	Change to SM18a	N52.96329 E0.98247
Morston N2C4	TN185	Change to SM13a and SM6 (3/7). SM13a	N52.96337 E0.98258
Morston N2C4	TN186	Change to SM6 and SM8. (5/5)	N52.96364 E0.98262

Site Name	TN	Description	Position
Morston N2C4	TN187	SM14a. Around creeks	N52.96418 E0.98262
Morston N2C3	TN188	Transect start	N52.96504 E0.98756
Morston N2C3	TN189	Aster with petals	N52.96481 E0.98754
Morston N2C3	TN190	Change to SM6 and SM14a and SM9 (4/4/2)	N52.96459 E0.98751
Morston N2C3	TN191	Change to SM14a with bits of Spartina anglica	N52.96442 E0.98753
Morston N2C3	TN192	SM13c is present to the east in flat areas. All this area is SM14a	N52.96328 E0.98780
Morston N2C3	TN193	Change to SM14c	N52.96318 E0.98774
Morston N2C3	TN194	Change to SM14a then large creek	N52.96281 E0.98767
Morston N2C3	TN195	Change to SM14c and SM13c (8/2)	N52.96228 E0.98812
Morston N2C3	TN196	Change to SM14c	N52.96001 E0.98677
Morston N2C3	TN197	Change to SM14c and SM13c. (5/5)	N52.95943 E0.98690
Morston N2C3	TN198	Fish in pan. Goby?	N52.95938 E0.98689
Morston N2C3	TN199	Salicornia on path	N52.95906 E0.98714
Morston N2C3	TN200	End of transect. SM14a at edge. But could be classed as SM14c	N52.95846 E0.98658
Stiffkey N2D6	TN201	Transect start. MG1	N52.95831 E0.94854
Stiffkey N2D6	TN202	Change to SM28. No earth bank present.	N52.95843 E0.94840
Stiffkey N2D6	TN203	Change to SM14a and SM25 and SM13c (6/3/1)	N52.95862 E0.94851
Stiffkey N2D6	TN204	Pans retaining water and empty. Empty pans with SM13c growing inside.	N52.95930 E0.94873
Stiffkey N2D6	TN205	Change to SM13c and SM14c (7/3)	N52.95953 E0.94893
Stiffkey N2D6	TN206	Inverts and fish in pans	N52.95986 E0.94890
Stiffkey N2D6	TN207	Spartina anglica in pans	N52.95998 E0.94878
Stiffkey N2D6	TN208	Change to SM13c and SM17 (6/4)	N52.96044 E0.94868
Stiffkey N2D6	TN209	SM14a at creek edges	N52.96114 E0.94859
Stiffkey N2D6	TN210	Change to SM25 at banks	N52.96153 E0.94805
Stiffkey N2D6	TN211	Small areas of SM8 in pans	N52.96232 E0.94738
Stiffkey N2D6	TN212	Change to SM9	N52.96234 E0.94763
Stiffkey N2D6	TN213	Change to SM8	N52.96242 E0.94760
Stiffkey N2D6	TN214	end of transect in sand dune driftline	N52.96267 E0.94754
Stiffkey N2D6	TN215	Limit of former marsh 1	N52.96314 E0.94736

Site Name	TN	Description	Position
Stiffkey N2D6	TN216	Limit of former marsh 2	N52.96366 E0.94726
Stiffkey N2D6	TN217	Limit of former marsh 3	N52.96470 E0.94752

7 Species List (with synonyms)

Scientific Name	Synonyms	Common Name
Agrostis stolonifera		Creeping Bent
Ammophila arenaria		Marram
Arrhenatherum elatius		False-oat grass
Artemisia maritima	*Seriphidium maritimum*	Sea Wormwood
Aster tripolium	*Tripolium vulgare*	Sea Aster
Aster tripolium (Rayless)		Rayless Sea Aster
Atriplex portulacoides	*Halimione portulacoides*	Sea-purslane
Atriplex littoralis		Grass-leaved Orache
Atriplex prostrata	*Atriplex hastata*	Spear-leaved Orache
Bolboschoenus maritimus	*Scirpus maritimus*	Sea Club-rush
Bostrychia scorpioides		Red Algae
Carex arenaria		Sand Sedge
Carex extensa		Long-bracted Sedge
Carex rostrata		Bottle Sedge
Channel wrack		
Cochlearia officinalis		Common Scurvygrass
Elytrigia atherica	*Elymus athericus*	Sea Couch
Elytrigia repens	*Agropyron repens*	Common Couch
Euphorbia paralias		Sea Spurge
Festuca rubra		Red Fescue
Galium aparine		Cleavers
Glaux maritima		Sea-milkwort
Juncus gerardii		Saltmarsh Rush
Juncus maritimus		Sea Rush
Limonium bellidifolium		Matted Sea-lavender
Limonium binervosum		Rock Sea-lavender
Limonium humile		Lax-flowered Sea-lavender
Limonium vulgare		Common Sea-lavender
Plantago coronopus		Buck's-horn Plantain
Plantago maritima		Sea Plantain
Puccinellia maritima		Common Saltmarsh-grass
Rumex crispus		Curled Dock
Salicornia europaea agg.		Common Glasswort
Sonchus arvensis		Perennial Sow-thistle
Sonchus oleraceus		Smooth Sow-thistle
Spartina anglica		Common Cord-grass
Spartina maritima		Spartina maritima

Scientific Name	Synonyms	Common Name
Suaeda maritima		Annual Sea-blite
Suaeda vera	*Suaeda fruticosa sensu*	Shrubby Sea-blite
Triglochin maritima		Sea Arrowgrass
Ulva lactuca		Sea Lettuce
Urtica dioca		Common Nettle
Xanthoria ucrainica		Lichen