

POOLE HARBOUR STUDY GROUP

POOLE HARBOUR REEDBED SURVEY 2000



for the REEDBED WORKING GROUP (Purbeck Biodiversity Project)



for birds
for people
for ever



ENVIRONMENT AGENCY



February 2001

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Each survey is in the order: map, aerial photograph, survey report, species lists, jpg thumbnails (all jpgs and complete dossiers are on CD ROMs held by the sponsoring bodies)

1. LYTCHETT BAY REEDBED
2. EAST HOLTON (HOLTON LEES) REEDBED
3. HOLTON HEATH REEDBED
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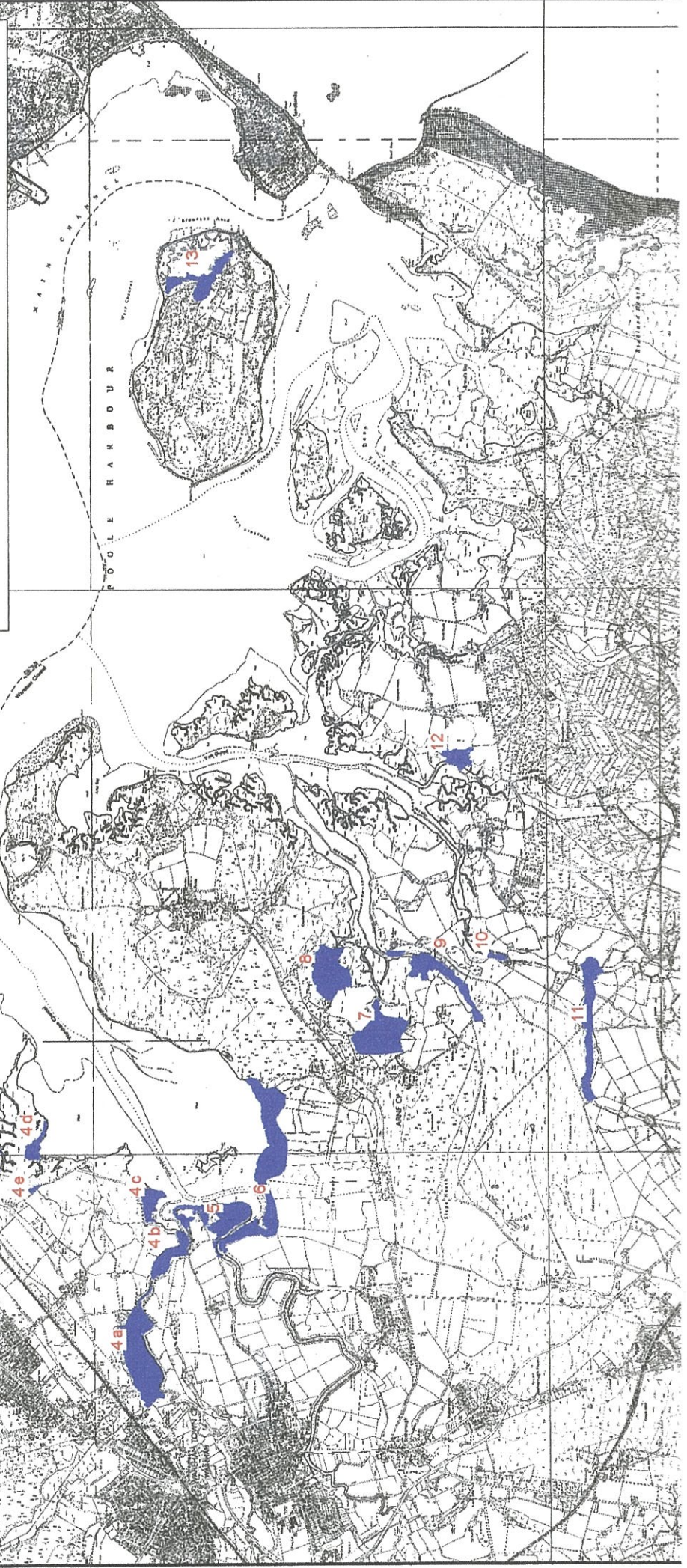
POOLE HARBOUR REEDBEDS SURVEY (2000)

1. Lychett Bay
2. East Holton
3. Holton Heath
4. Keyworth Reedbeds
5. Swineham
6. The Moors
7. Slepe
8. Salterns
9. Middlebere
10. Middlebere/Wych Lake
11. South Middlebere
12. Wych Lake
13. Brownsea



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POOLE HARBOUR REEDBEDS – year 2000 survey

summary report

The reedbed habitat forms on permanently wet or frequently flooded freshwater or tidal land and is characterised by the dominance of the common reed *Phragmites australis*. Reedbeds may be linear alongside rivers or cover many hectares of land in large blocks on undrained river plains or above the saltmarsh zone in estuaries. They are noted for their importance to a range of often specialised species some being only found in reedbeds. Agricultural improvements following the loss of economic value for reeds for thatching in the past has resulted in drainage of many wetlands including their reedbed component. Reedbeds are therefore a high priority habitat to protect for their wildlife interest.

This survey was commissioned by the Purbeck Reedbed Working Group (as part of the Biodiversity Action Plan for reedbeds) to assess the condition, and conservation value of 13 major reedbeds in Poole Harbour. The survey found that the majority of the Poole Harbour reedbeds surveyed (174.55 hectares) were in good condition and supported a number of notable species. However all reedbeds showed signs of damage by sika deer (*Cervus nippon*) which was severe in one reedbed and localised in others. Drying out and scrub encroachment, water quality control, no conservation management and lack of management of adjacent habitats were also highlighted as local problems. The threat of rising sea levels and loss by erosion and habitat change are also of concern.

Despite the value of the beds to significant bird species such as bearded tit (*Panurus biarmicus*) only 4 out of the 13 reedbeds studied have adequate species records. For reedbeds in the Lytchett Bay and Keyworth/Holton area the value of bird recording by the Stour Ringing Group and members of the Dorset Bird Club and moth trapping by Peter Davey and Alan Bromby must be acknowledged.

The survey also highlighted a number of possible practical management opportunities and some theoretical areas for reedbed expansion.

The survey has been summarised in dossiers (including a CD ROM of photographs) which act as a record of all the beds surveyed and include any species data found during the survey period. The dossiers are designed to be added to in the future and are to act as a baseline for future management decisions.

1. POOLE HARBOUR and its REEDBEDS

The following are the most significant reedbeds around Poole Harbour which were selected for the survey :

Survey number	Name	Area (hectares)	Grid ref.
1	Lytchett Bay	16.62	SY975925
2	East Holton (Holton Lees)	35.26	SY965915
3	Holton Heath	17.31	SY950901
4	Keyworth reedbeds (5)	Total: 25.5	SY934886 east to SY947896
5	Swineham Point	9.01	SY944878
6	The Moors	22.53	SY953874
7	Slepe	12.77	SY960865
8	Salterns	10.77	SY966869
9	Middlebere	7.1	SY965868
10	Middlebere – Wych Lake west	.61	SY967853
11	South Middlebere	9.87	SY961847
12	Wych Lake east	1.57	SY986857
13	Brownsea Island	5.63	SY028878
	TOTAL	174.55 hectares	

Poole Harbour and its margins are internationally important for wildlife. The Harbour and most of the reedbeds associated with it are included within European and UK designations designed to protect their wildlife interest - all of them are Sites of Special Scientific Interest (SSSIs) and most are within the Poole Harbour Special Protection Area (SPA) classified in 1999, and the Ramsar Site boundary.

Dorset's reedbeds occupy about at least 285 hectares (this and following figures will have to be adjusted as the survey has revealed a more accurate area)- about 47% of the whole reedbed area of South West England. The bulk of these, 174.55 hectares (up to date area), are within the Poole Harbour environs – this represents over 60% of the county's reedbeds and about 30% of the reedbed total for the South West of England.

Some reedbeds merge into the Harbour down the river valleys (The Moors is an extension of the reedbeds lining the edge of the River Frome, the South Middlebere reedbeds grow alongside the Corfe River and the northern parts of the Holton Lees reedbeds grow alongside the river Sherford) and others are part of the natural zonation of the Harbour edge: above the saltmarsh and below fringing can woodlands and bogs such as Holton Heath and Lytchett Bay.

Some beds, such as the Moors and Swineham, are on the Harbour side of a sea wall and are mainly tidal, cut off from significant freshwater influence. Others are inside the sea wall or far enough up a valley to have a large freshwater influence: Brownsea, Salterns, Slepe and the Middlebere reedbeds show this. Brownsea reedbed 1 and the South Middlebere reedbeds are the only ones studied which are purely freshwater the rest being tidal to some degree. Shag Looe and Bucks Cove are outliers – growing on spits in the Harbour and surrounded by saltmarsh.

1.1 Threats to the Poole Harbour reedbeds

Though most beds after this survey have been classified as stable this is only within the context of a short time scale (say 5 years) – in the long term many of these reed beds could suffer from one or more problems, all of which are evident today to a small degree.

These are

- **Increasing deer damage.** Deer are a particular problem at East Holton but all reedbeds, excluding Swineham Point, had evidence of deer and most had some localised grazing or worse.
- **Drying out causing curved and sparse reed growth.** Curving also occurs where there is a change from saline to fresh water. Curved reeds often grow partly parallel to the ground and are of less value to nesting reed warblers and create a dense mat which can prevent access to the reedbed floor by snipe and water rails.
- **Increase of salinity** in artificially maintained freshwater beds where water control systems are not functioning well – Salterns and Slepe reedbeds are artificially freshwater, the saline influence being partly held back by a seawall. A considerable supply of freshwater feeds these beds which currently holds back salinity in the upper reaches of the beds from leaking sluices and seepage.
- **Rising sea levels.** It has been predicted that within the next 80 years there could be a 12- 67 cm. rise of sea level. In the long term all beds will be reduced in area or changed in some way with predicted rising sea levels. Erosion at the Harbour edge is already evident in western beds e.g. Swineham Point. Contingency plans for new reedbeds should be made to prevent a loss of reedbed area around the Harbour.
- **Scrub encroachment** in freshwater beds. Scrub is not a problem in tidal areas and is partly held back by deer elsewhere. The South Middlebere beds have a strong invasion of willow and bog myrtle.
- **Uncontrolled cattle grazing** – only a local problem in Middlebere (north west of the stream and north) and Wych Lake east where cattle trample reeds and degrade the habitat.
- **Lack of beneficial wildlife monitoring and management.**

1.2 THE POOLE HARBOUR REEDBED SURVEY BRIEF

Because of their importance, reedbeds are a key habitat within the national Biodiversity Action Plans. As relatively little is known about the reedbeds of Dorset the Purbeck Biodiversity Reedbed Working Group commissioned a survey of the 13 most significant reedbeds or groups of reedbeds within Poole Harbour.

Conducted during October and November 2000 the survey was designed to assess **the condition and structure of the beds and centralise known information about species and management practices** as a preliminary step towards drawing up comprehensive management plans and recommendations for further study and opportunities for expansion or management of the beds.

1.2.1 Reedbed Dossiers

The survey has resulted in a set of Reedbed Dossiers in which current information about a particular bed is centralised in whole or summary form. This includes recent past wildlife records, conservation management and historical information as well as results of the survey. Each reedbed was photographed to record significant features and the photographs (many with attached grid references) are recorded on CD ROMs as are the complete dossiers.

2. POOLE HARBOUR REEDBED SURVEY SUMMARY

2.1 Reedbed Condition

The condition of the reedbeds has been recorded in detail within the dossiers but their general condition and state can be summarised as:

<i>Name</i>	<i>Condition</i>	<i>State</i>	<i>Main problem</i>
1. Lytchett Bay	Good	Stable except for...	Drying at edges
2. East Holton (Holton Lees)	Good to poor	Declining	Sika deer grazing
3. Holton Heath	Very good	Stable	Minor grazing, some scrub
4. Keyworth reedbeds	Good	Stable	Could improve water control in main bed
5. Swineham Point	Very good	Stable	Erosion at Harbour edge
6. The Moors	Good	Stable	Minor deer damage
7. Slepe	Good	Stable to slight decline	Saline influx
8. Salterns	Good	Stable	Saline influx, minor deer damage
9. Middlebere	Good	Part declining	Cattle damage
10. Middlebere – Wych Lake west	Poor	Declining	Drying out
11. South Middlebere	Good	Slow decline	Scrub invasion
12. Wych Lake east	Good to poor	Declining in parts	Cattle grazing
13. Brownsea Island	Very Good to average	Reedbed 2 declining	Slow drying out in 2, minor deer damage elsewhere

Of these 2,9,10,11,12 and part of 13 were seen to be in a condition requiring immediate management . Others also need a management plan and/or work though no urgency is required (see detailed summaries) in dossiers.

- The Poole Harbour reedbed resource is impressive and of great value to wildlife including many notable species.
- Generally though the structure of the Poole Harbour reedbeds was good, the condition of the Holton Lees bed being the only one of serious concern because of the deer damage.
- Brownsea 1, Salterns, Slepe, and South Middlebere had the greatest diversity with flowing fresh water, associated mires and carr and good reed condition.
- Holton Heath and Lytchett Bay possess the largest expanses of dense extensive reed cover. In the mainly tidal/saline areas reeds grow tall, strong and dense often becoming weaker and curved towards dry land.

2.2 Hydrology

Most of the Poole Harbour reedbeds are tidal with varying levels of salinity. Many have some freshwater areas and a few are purely freshwater.

Saline beds are important for several key species including bearded tits but will be less diverse than a similar freshwater bed which will have a wider variety of invertebrate interest and thus more potential for feeding birds, water voles and a mix of marsh flora.

- Most Harbour tidal reedbeds do not need any significant management to maintain their existing state (excluding deer and grazing problems).
- Tidal beds generally had less leaf litter where they were regularly inundated. Freshwater beds have the deepest leaf litter and scrub encroachment.
- Purely freshwater reedbeds are at South Middlebere, Middlebere-Wych Lake west, and Brownsea Island reedbed 1. Most other beds have a freshwater influence from the nearby higher ground in the form of flushes, mires and flowing water. Middlebere, Salterns, Slepe and Brownsea Islands 2 and 3 reedbeds all have a very significant percentage of freshwater areas.
- The freshwater reedbeds should be particularly valued and managed as far as possible to keep their fresh nature.

2.3 POOLE HARBOUR REEDBEDS AND WILDLIFE

The particular benefit of reedbeds to wildlife results from their physical structure – large areas of dense reeds growing to around 2 metres with about 100 to 200 stems per square metre and subject to regular flooding. Each year new stems grow and the previous years stems persist as tough vertical straws giving the bed a characteristic golden colour until about midsummer when the new green growth of that year's reeds pushes upwards. Pools, ditches, scrub and rushy areas or saltmarsh may add variety but reedbeds are generally quite monotonous habitats.

Only a few species are specialised enough to cope with the conditions found in a reedbed: water logged or flooded soils, large areas of dense stems difficult to penetrate and a specialised food source often seasonal in availability. For example: reed warblers and bearded tits use the stems as nest supports, water rails nest in tussocks and feed on invertebrates in the reedbed, water voles eat young reed shoots as their main diet for much of the year and a few insects such as wainscot moths are so specialised that their whole life cycle occurs in just a few square metres of a reed bed even overwintering in the hollow reed stems.

Some of this wildlife is so rare or declining that conservationists have declared them at risk or requiring special attention by securing their reedbeds and managing them correctly.

2.3.1 Dorset's threatened reedbed wildlife

When reedbeds had a commercial value (primarily for thatching) and before land drainage was universally applied to the countryside, reedbeds and adjacent marshes across the country supported a rich and interesting wildlife. Now they are relatively small, often invaded by scrub and separated by vast expanses of farmland causing some of these wildlife populations to diminish. Examples include the bittern which demands large freshwater reedbeds and the water vole which survives best within a continuous network of wetland habitats. Other species are secure in very local areas – the wainscot moths are a good example of this.

Future losses to their habitat by mismanagement or rising sea levels could bring the Dorset populations of reedbed species to local extinction.

Below are tables of key species which have been recorded in the Poole Harbour reedbeds over the last decade. The majority of these are nationally or locally scarce and are associated almost solely with the reedbed habitat.

Invertebrates more or less limited to reedbeds or associated habitats:

A SPIDER	<i>Clubiona juvenis</i>
A STONEFLY	<i>Nemoura dubitans</i>
FLAME WAINSCOT MOTH	<i>Senta flammea</i>
BROWN-VEINED WAINSCOT	<i>Archanara dissoluta</i>
TWIN-SPOTTED WAINSCOT	<i>A.gemipunctata</i>
SILKY WAINSCOT	<i>Chilodes maritimus</i>
OBSCURE WAINSCOT	<i>Mythimna obsoleta</i>
SMALL RED DAMSELFLY	<i>Ceragrion tenellum</i>
DOWNY EMERALD DRAGONFLY	<i>Cordulia aenea</i>
RUDDY DARTER DRAGONFLY	<i>Sympetrum sanguineum</i>

Bird species more or less limited to reedbeds or associated habitats:

MARSH HARRIER	<i>Circus aeruginosus</i>
REED WARBLER	<i>Acrocephalus scirpaceus</i>
CETTI'S WARBLER	<i>Cettia cetti</i>
SEDGE WARBLER	<i>Acrocephalus schoenobaenus</i>
AQUATIC WARBLER	<i>A. paludicola</i>
REED BUNTING	<i>Emberiza schoeniclus</i>
BEARDED TIT	<i>Panurus biarmicus</i>
EURASIAN BITTERN	<i>Botaurus stellaris</i>

Invertebrates found in habitats associated with reedbeds (carr and rush):

LUNAR HORNET CLEARWING	<i>Sesia bembeciformis</i>
LONG-WINGED CONEHEAD	<i>Conocephalus discolor</i>
SHORT-WINGED CONEHEAD	<i>C. dorsalis</i>

Some species, common and scarce, often found in reedbeds but not exclusively:

HEN HARRIER	<i>Circus cyaneus</i>
WATER RAIL	<i>Rallus aquaticus</i>
MOORHEN	<i>Gallinula chloropus</i>
COMMON SNIPE	<i>Gallinago gallinago</i>
JACK SNIPE	<i>Lymnocyrtus minimus</i>
STONECHAT	<i>Saxicola torquata</i>
WHINCHAT	<i>Saxicola rubetra</i>
WATER VOLE	<i>Arvicola terrestris</i>

2.3.2 Status of Purbeck reedbed species

Poole Harbour's reedbeds contain some species of national importance. Of the 6 nationally rare Red Data bird species cited in the UK Costed Habitat Action Plan for Reedbeds, marsh harrier, Cetti's warbler and bearded tit are regular users of the Purbeck reedbeds.

The bittern (only rarely recorded in Poole Harbour) and marsh harrier (once breeding and now usually only seen in the winter) are on the RSPB's RED list (high conservation concern) and the bearded tit and Cetti's warbler (found breeding in only a few other sites around the UK) are on the AMBER list (of medium conservation concern).

Old records exist for the reed leopard moth (a Red Data book species) in the Purbecks and in recent years other scarce moths, the flame-, obscure-, and Blair's wainscots have been found in some of the reedbeds.

The water vole, though widespread, has suffered dramatic reductions in populations over the last twenty years yet still survive in many of the freshwater reedbeds around the Purbecks.

However because of the relative scarcity of reedbeds and the various threats to wetland systems, all species using a reedbeds can be considered to be of conservation concern.

2.4 SPECIES LISTS AND MANAGEMENT PLANS

Few of the reedbeds had adequate recording of the wildlife or detailed management plans

- A detailed management plan exists for the Brownsea beds. Holton Heath, East Holton, The Moors, Salterns and Slepe all have some management statements or plans though little work is scheduled. Others have no management plans or policies.
- Lytchett Bay, Holton Heath, Keyworth, and Brownsea have some good species records. Others have some but these tend to be lumped in with records for the whole area and include records for non reedbed species
- Much work still needs to be done to provide up to date records of reedbed wildlife.

3. RECOMMENDATIONS

3.1 General

- The area of reedbed in Poole Harbour should be maintained at the current area and future work should seek to increase it (within the Biodiversity Action Plan targets) for wildlife conservation reasons and for any losses associated with rising sea levels.
- Efforts should be made to secure the ownership or the good management of reedbeds which are suffering from damaging activities
- Grazing by deer and cattle should be examined and monitored. Beds with severe grazing problems will need to be protected from the grazing.
- The Reedbed Working Group should further seek to improve the perception and status of the Poole Harbour reedbeds by informing land managers, landowners and interested parties about survey results and management opportunities.

3.2 Future Management work

This document is not meant to provide detailed management suites but the following need to be looked at as part of the content of any management plans for Harbour reedbeds.

- Management Plans for all reedbeds should be drawn up to include managing peripheral habitats such as carr woodland.
- All reedbeds with surrounding carr woodland (all excluding Keyworth B to E, Swineham, The Moors, Middlebere and Wych Lake east) would benefit from coppicing/pollarding scrape and pool creation and other reedbed margin improvement works.
- Options for buffer zones and the creation of more scrub along the margins of all reedbeds would benefit biodiversity and specifically aid Cetti's warblers.
- All efforts should be made to maintain freshwater beds or freshwater components of beds and an assessment of the values and future of existing or new sluices, banks and ditches made.
- Scrub encroachment should be addressed where it occurs.

3.3 Opportunities for expansion

- In the light of rising sea levels and a natural expansion of wetland habitats opportunities for reedbed expansion should be examined. Possible opportunities which may yield significant amounts of new wetland/reedbeds are at: The Moors (work already in hand by the RSPB), Keyworth and South Middlebere. Other opportunities may exist at Lytchett Bay south, Swineham and Holton Lees (north) and the lower Frome and Piddle. These are only theoretical and depend upon land ownership, land values to stock and other conservation issues.

3.4 Surveying and recording

- Over the next few breeding seasons all beds should be surveyed for breeding and wintering birds and a longer term approach to monitoring developed.
- Records held at the Dorset Environmental Records Centre need sorting and those applicable to reedbeds need identifying. When the Dorset Bird club records are available through DERC these could be incorporated in dossiers if appropriate.
- Specialists must be encouraged to research in reedbeds, especially for invertebrates (moths in particular)
- More searching at e.g. Centre for Ecology and Hydrology and private individuals could yield more species information.
- There are other reedbeds in Poole Harbour and its reaches that could be surveyed

Acknowledgements

Particular thanks must go to the following:

To the members of the Reedbed Working Group who steered the project and whose parent organisations funded the survey: Paul St Pierre and Dr. John Day (RSPB), John Stobart (English Nature), and Emma Rothero (the Environment Agency). I would also like to thank Nick Squirrel (English Nature) Annabel King (National Trust) and Richard Acomley (the Environment Agency).

All landowners who allowed access to their land including the Wimborne and Rempstone Estates, Christopher Lees and the Lees Estate, the Holton Lees Trust, Harry Clark of Kesworth Farm, Camus Aggregates, the RSPB, the National Trust, English Nature and the Dorset Wildlife Trust.

Records, area figures and maps were kindly supplied by the Dorset Environmental Records Centre (particular thanks to Alison Stewart and Nick Button), bird records by Shaun Robson, Bob Gifford, Tasie Russell and Steve Smith and moth records by Alan Bromby and Peter Davey.

Kevin Cook Feb/April 2001

RSPB CETTI'S WARBLER SURVEY 1996

Dorset was surveyed for Cetti's warbler, the following were recorded:

Singing males

Arne Moors/ Ridge Farm (The Moors ?) 5-6

Keyworth 6-7

Lytchett Bay 2

Sherford River 2-3

Middlebere/Wych channels 1

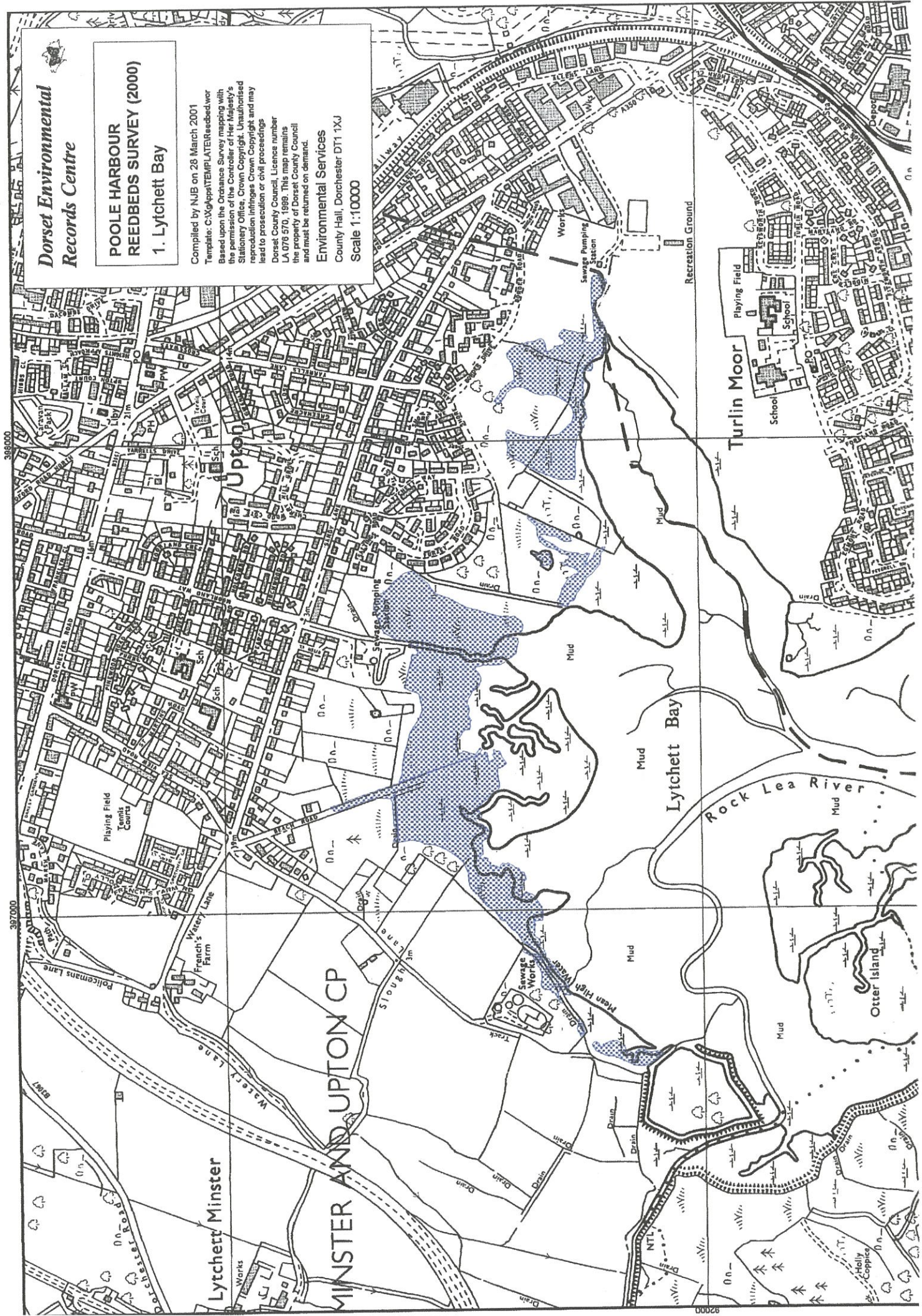
Swineham/Bestwall : 12-13

(Written up in British Birds March 1998)

**Dorset Environmental
Records Centre**

**POOLE HARBOUR
REEDBEDS SURVEY (2000)
1. Lytchett Bay**

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Lytchett Bay

1. Lytchett Bay Reedbed

Grid ref.: SY975925

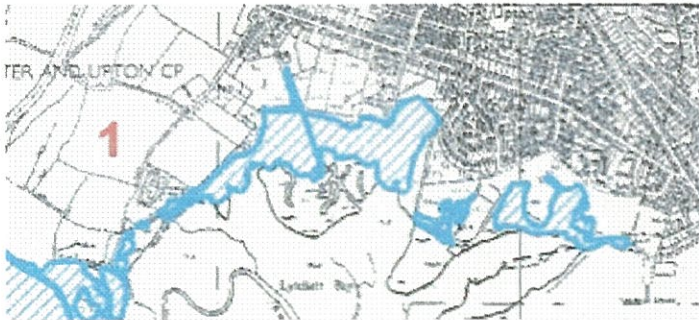
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1. Summary

1.1 Table

Key features	Summary
Reedbed area (ha.)	16.62
Hydrology	Saline, tidal, some minor fw influence
Condition	Good
State	Drying at edges but stable elsewhere
Adjacent to	Pasture, woodland, heathland, gardens, Harbour
Mgmt. Problems	Drying out, scrub
Notable sp.	BT, WR, CW, RW, HH, Sn
Current mgmt.	None
Expansion opportunities ?	Possibly into western fields
Management opportunities ?	Few

1.2 Quick reference map



1.3 Key features

- Extensive continuous nature gives high potential for some key species
- Virtually all affected by tide and salinity (up to 20% saline). Some minor freshwater areas in scrub patches behind bank in east
- Reed height and condition variable . Extremely dense and tall (2.5m) in central Bay area but signs of drying out with extensive curved reed on western boundary.
- Adjacent to a variety of habitats including wet and unimproved fields and woodland
- Birds have been well recorded - several notable species
- Some options for expansion of reedbed or other wetland habitat (wet grassland, scrapes)
- Opportunities for scrub management for Cetti's warbler
- No significant deer damage

2. Site Description

The bulk of the Lytchett Bay reedbed is within the Poole Harbour SPA, SSSI and Ramsar boundaries, though some small areas (see map) are outside.

2.1 General

For convenience it is possible to recognise three distinct sections:

1. A small reedbed, south of the A350 and north of the Sherford, mainly on the outside of the sea defence part of which at least is regularly inundated by tide. (photo 1024 – grid reference SY96759226.
2. The main reedbed which occupies the northern end of the Lytchett Bay
3. Patchy reed in the northeast, some associated with gorse scrub and freshwater around SY980924

2.2 Access

There are no public rights of way though there is access to the shore in the east from Shore Lane and in the north from Beach Road.

Access for this survey started in the south west via the farm fields. There is a low sea wall (bank) which skirts the Harbour along a narrow strip of reed. Walking north-east the reedbed opens out into the main bed. Generally access through the bed is fairly safe until the central ditch system and saltmarsh is reached then extreme care must be taken to avoid falling in the ditch and deep channels from the saltmarsh

3. Site History

No history of its management has been acquired during the survey though there are several ditches which run across it in the north to drain the land above. In that area there are some marked walkways and corridors which may belong to fishermen (or perhaps bird ringers?) (photo 1046, 1048) but access is still tricky because of unseen deep ditches.

There has been no conservation management of any of the beds.

There has been a constant effort of bird watching (mainly by Shaun Robson – report attached) – see species lists.

4. Current Management

There is no management of the bed at the time of the survey. However the RSPB are trying to secure a lease for the associated unimproved fields north of the Sherford.

5. Survey Results

See DCC aerial photo 22-0498 (See *DCC 22-0498 LB.jpg* on CD ROM)

5.1 Southern reedbed by Sherford (approx.SY 966920)

Site photos: 1024- 1028

Patches of reed grow in an unimproved field between the improved fields to the north and the river Sherford. This was not entirely explored because of the state of the tide. Reed is variable – reeds are quite low where they grade into the saltmarsh (photos 1024, 1025) with plenty of open water on high tide. Towards the Sherford outlet into the Harbour the reed is more extensive with a small wooded area centrally (in distance photos 1026, 1027). Photo 1028 shows an improved field that could be brought into a wetland management scheme in this area.

The reedbed narrows as it goes north beyond the sewage works (Photos 1029, 1030) and then steadily broadens into the whole bed

5.2 The main reedbed (centre SY973926)

Site photos: 1031- 1062

The most southerly tip of this bed starts near the sewage works and grows on the Harbour side of the sea wall bank. Photo 1031 shows a wet field nearby already being used by waders, gulls and an egret which could be managed as a wetland. Flowing alongside this is a strongly flowing ditch which should drain via the ditch shown in photo 1032 SY 96949239. This ditch has a sluice through the sea wall that appears to be blocked, possibly to prevent saline incursion. Water flowing from the fields is diverted along the inside of the bank to an unknown outlet into the Harbour.

Photo 1033 shows the density and consistent nature of the bed looking NE from 97979241 which is all tidal.

However it is apparent that this whole Bay may well be silting and drying up. The photos 1034, 1036, 1037, 1038, 1039 all show strongly curved reeds (a sign of drying out) and areas of the bed with grasses and other plants growing amongst the reed. Some woodland slightly grows into the bed but is probably held back by salinity, the reed quality is poor in this area (SY97149256) but there is still water in the bed (about 15cms.deep)

Despite the curvature of the reed it grows extremely densely. Reeds straighten out towards the Harbour edge and some very tall, thick stemmed, straight reed grows very densely there.

The dense growth of reed continues throughout the bed except where it thins out into saltmarsh (photos 1044, 1045).

There is a narrow belt of woodland (thicker in places – see aerial photo) around all of the bed which could be managed with a more scrubby edge (sika deer permitting). Some of this may be part of an HCT reserve (photos 1051 and 1052). In the eastern section a long block of gorse grows alongside the edge the bed at SY977925 marking a distinct boundary of the main reed bed with a more patchy growth

5.3 Eastern reedbeds

Site photos 1063 – 1066

These reeds are lower, less dense and thinner than the previous areas and are less continuous as they follow the bank by the protruding saltmarsh spit (SY 977922). Another small reedbed grows into the bay formed by the spit and the land further east (photo 1058) which again is dense with very curved reeds and is also showing evidence of drying out.

5.4 Photographic record held on CD ROM

Photo Number P0000	Reedbed	Grid Reference	Direction taken	Notes
1024	LB	SY96759226	SW210	Small saline marsh in foreground opposite Holton Lees
1025		96739223	SW210	12" saltwater. Reeds 1 metre, reeds <100cm apart high 10% flowering. All straight. Bank in distance with birches which cuts bed off from grassy field
1026		96659225	S200	Southern field. Rough grazing on right but reedbed fenced off.
1027		96649225	SW230	Fields at southern end, potential for conservation work. Meadow ants nest on low bank.
1028		96689225		Southern fields. Improved pasture – could be improved for wildlife
1029		96829229	NE80	Sea wall bank on left
1030		96889233	SW240	Southern end of reedbeds near sewage outfall
1031		96929239	N from sea wall	Pool with waders, gulls, little egret. Potential for wetland enhancement
1032		96949239	E	Standing on blocked up sluice – alters flow of fw to north but also may prevent saline incursion
1033		96979241	NE60	Tidal bed
1034		97029328		Curved reed extending to point – high tide with 15cms water.
1035		97039237	NE40	Reedbed edge, water .5metre deep high tide
1036		97149256		Land edge of bed sallow/oak/holly some fw but probably floods. Tall but curved reeds but up to 2 metres, get straight towards water's edge.
1037		97189258		Dense reed but all curved
1038				General view showing reed quality
1039		97229261	N20	V. dense almost impenetrable reed, 2.5 metres high often at an angle
1040		97279262	N350	Low bank and ditch to east and then another bank stretching into Harbour
1041				Other bank on east side of ditch
1042		97289258	SW210	Tidal inlet and wooden plank
1043		97339248	NW260	Saltmarsh
1044		97339248	NE80	Edge pf reedbed
1045		97339248	NE100	Saltmarsh and reedbed
1046		97379251	N30	Shallow track though bed into saltmarsh. Marsh is treacherous around here with many deep inlets and creeks.
1047		Near above		Dense good quality reed. Bearded tits seen here !
1048				Another shot of track near 1046
1049				Not very good shot of dense reed
1051		97429263	NW	Heathy/birch edge to bed
1052		97489266		Sallow/ birch/typha carr, old hardcore edge to bed
1053		97569260	NW	Series of photos taken across the bed from a dry bank at edge: A
1054				B
1056				C
1057				D
1058			NE70	E
1059		97509241	N	Harbour edge
1060		97509237	NE80	
1061		97589245		Dense 2.4 metre reed
1062				Looking north at reedbed/Harbour edge

1063		97809219		Small fringing reedbeds of Lytchett bay
1064		97799221	NW290	"
1065				General shot of Lytchett Bay
1066		97709226	NE50	Small patches of reed inside gorse scrub

5.5 Other references

Ringling records from Roger Peart

Preliminary Survey of the Reedbeds around Poole Harbour (Price and Pickess) 1993

Reedbed Survey 1996

6. Recommendations

- The drying out/reed curvature is investigated for possible management strategies: this management could include machine work to remove some areas of reed creating pools for long term regeneration and short term use as pools by waders and wildfowl
- Examine requirements and benefits for open water in the bed – more ditches ?
- Scrub management is looked at – should some scrub be encouraged within the bed or as protrusions into the bed for Cettis?
- Peripheral habitats should be further assessed for practical management beneficial to the reedbed eg. Scrub coppicing, brush piles, open pools.
- Cut corridors may be useful – thought to help reed warblers – look into this
- Examine potential of adjacent western fields for future wetland management
- The function of the blocked sluice is investigated (near wet field)
- Encouragement is given to the existing recorders to continue monitoring the birds and invertebrate recording should be initiated

7. Species List

7.1 Seen during survey

Bearded tit, snipe, water rail, little egret

7.2 Report from Shaun Robson

Lytchett Bay – reed bed records 1995 – 1999

These records are from the reed beds of Lytchett Bay. The area is defined by the railway to the south and the first tarmacked road in any other direction. They do not include any breeding passerines in the Otter Island reed bed at Holton Lee, as this area has not been surveyed.

Eurasian Bittern (Rare winter visitor)

1998 – one from the 30th December into 1999.

1999 - Above bird remained until 24th Jan.

Marsh Harrier (Winter visitor and passage migrant)

1995 – recorded on 4 dates in March, 3 dates in August and once in November. Roosting not recorded.

1996 – 5 dates in Feb, 1 in March, 1 in May and August, 2 in Sept. Roosting not noted.

1997 – seen on 8 dates throughout the year.

1998 – A bird roosted in the reed bed east of Beach Road on many dates in the first winter period. 2 roosted on 3 dates. Noted on 10 other dates from May until the year-end.

1999 – Seen on 8 dates throughout the year. No recorded roosting.

2000 – Female roosted throughout November and December.

Hen Harrier (Winter visitor and passage migrant)

1995 – recorded on 5 dates between 15/1 and 21/3, once in April, 4 dates from 26/11 to year-end. Roosting not noted.

1996 – 1 date in Jan, 1 in Feb, March and Dec. Roosting not noted.

1997 – seen on 6 dates throughout the year.

1998 – A Bird regularly roosted in the first winter period in the same area as the above species. 2 were noted on one date. Only one record in the second winter period.

1999 – Seen on only 6 dates.

Water Rail (Common breeding Resident and winter visitor)

1995 – Minimum of 6 pairs bred. Minimum of 16 juveniles recorded.

1996 – At least 28 juveniles fledged.

1997 – Bred successfully. No counts made.

1998 – No counts made but many juveniles recorded in all reed beds in the Bay in mid summer.

1999 – 14 Juveniles seen on 13th Aug.

Moorhen (Uncommon breeding resident)

1995 – One pair raised 2 young.

1996 – Two pairs bred. Max count 12.

1997 – Two pairs bred.

1998 – Four pairs present.

1999 – Four pairs. At least 2 successful.

Barn Owl (Rare visitor)

1995 – One quartering reeds each evening 7-11/9

1997 – One between 21-28/2.

Sand Martin (Passage Migrant)

1995 – Reed bed roost during July. Peak 2200 on 13th.

1996 – Reed bed roost during July. Peak c5000 on 18th.

1997 – Reed bed roost during July. Peak 2300 on 14th.

1998 – No roost during July.

1999 – Again poor numbers roosting. Peak 200 on 6th July.

Swallow (Passage migrant)

1995 – Reed bed roost during August. Peak 350 on 16th.

1997 – Reed bed roost during September. Peak 160 on 16th.

1998 – Reed bed roost during August. Peak 100 on 26th.

1999 – Reed bed roost during autumn. Peak 540 on 25th Sept.

Pied Wagtail (Passage Migrant)

1995 – Reed bed roost. Peak 70 on 18th October.

1996 – Reed bed roost. Peak 200 on 20th October.

1997 – Reed bed roost. Peak 140 on 26th October.

1998 – Reed bed roost. Peak 134 on 18th October.

1999 – Reed bed roost. Peak 200 on several dates in October.

Cettis Warbler (Breeding resident)

1995 – 2 singing males.

1996 – 2 singing males.

1997 – 3 singing males.

1998 – 4 singing males. Ringing proved at least one pair was successful.

1999 – 5-7 singing males.

Reed Warbler (Common summer visitor)

1995 – min 28 territories.

1996 – no survey, status thought to be unchanged.

1997 – min 23 territories.

1998 – no survey, status considered to be unchanged.

1999 – No survey, status considered unchanged.

Bearded Tit (Uncommon resident)

1995 – 1 pair raised 6/7 young.

1996 – 1 pair raised 5/6 young.

1997 – 16 ringed during July including 2 ad females and 13 birds of the year.

1998 – 1 pair bred successfully.

1999 – At least one pair with two broods noted. One in April and another in August.

Starling (Common resident and passage migrant)

1995 – Reed bed roost. Peak 1300 on 27th July.
 1997 – Reed bed roost. Peak 5000 on 26th Oct.
 1998 – Reed bed roost. Peak 1300 on 15th Oct.
 1999 – Reed bed roost. Peak 2000 on 22nd Oct.

Reed Bunting (Common resident)

1995 – min 8 pairs.
 1996 – no survey. No change in status noted.
 1997 – min 7 pairs. 19 ringed.
 1998 – no survey.
 1999 – min 10 pairs (one in cereal crop near reed bed).

7.3 Records from Tasie Russell

Hen Harrier winter roosts

Counts shown as maximum for each visit

90/ 91	91/ 92	92/ 93	93/ 94	94/ 95	95/ 96	96/ 97	97/ 98	98/ 99	99/ 00	00/ 01
1,1, 1	1	2	(1)	1,1	2	0		0	0	?

7.4 RSPB Cetti's warbler survey - 1996

2 territories recorded

7.5 Records from DERC

Evernia prunastri	a lichen		SY965920	SZ08/04/2 7	Poole Harbour (SMU 27)	Jun-84	McGibbon , Mr R.	English Nature (1997)	mud/saltm /reedb/oth er	325996
Parmelia caperata	a lichen		SY965920	SZ08/04/2 7	Poole Harbour (SMU 27)	Jun-84	McGibbon , Mr R.	English Nature (1997)	mud/saltm /reedb/oth er	325997
Leucobryu m glaucum	a moss	DN	SY971925	SZ08/04/2 7	Poole Harbour (SMU 27)	Jun-84	McGibbon , Mr R.	English Nature (1997)	mud/saltm /reedb/oth er	325932
Mnium hornum	a moss		SY971925	SZ08/04/2 7	Poole Harbour (SMU 27)	Jun-84	McGibbon , Mr R.	English Nature (1997)	mud/saltm /reedb/oth er	325933
Pteridium aquilinum	Bracken		SY965920	SZ08/04/2 7	Poole Harbour (SMU 27)	Jun-84	McGibbon , Mr R.	English Nature (1997)	mud/saltm /reedb/oth er	326001
Dryopteris dilatata	Broad Buckler- fern		SY971925	SZ08/04/2 7	Poole Harbour (SMU 27)	Jun-84	McGibbon , Mr R.	English Nature (1997)	mud/saltm /reedb/oth er	325927
Myrica gale	Bog Myrtle	DN	SY972926	SZ08/04/2 7	Poole Harbour (SMU 27)	APR 1983 - MAY 1983	Alexander , Mr I.	English Nature (1997)	mud/saltm /reedb/oth er	326522
Quercus robur	Peduncula te Oak		SY965920	SZ08/04/2 7	Poole Harbour (SMU 27)	Jun-84	McGibbon , Mr R.	English Nature (1997)	mud/saltm /reedb/oth er	325995
Quercus robur	Peduncula te Oak		SY971925	SZ08/04/2 7	Poole Harbour (SMU 27)	Jun-84	McGibbon , Mr R.	English Nature (1997)	mud/saltm /reedb/oth er	325924
Quercus robur	Peduncula te Oak		SY972925	SZ08/04/2 7	Poole Harbour (SMU 27)	Jun-84	McGibbon , Mr R.	English Nature (1997)	mud/saltm /reedb/oth er	325913
Lotus peduncula tus	Large Bird's- foot-trefoil	DN	SY973925	SZ08/04/1 7	Poole Harbour (SMU 17)	18-Jun-84	McGibbon , Mr R.	English Nature (1997)	mud/saltm /reedb/oth er	326469
Lotus peduncula tus	Large Bird's- foot-trefoil	DN	SY976923	SZ08/04/1 7	Poole Harbour (SMU 17)	18-Jun-84	McGibbon , Mr R.	English Nature (1997)	mud/saltm /reedb/oth er	326427
Vicia cracca	Tufted Vetch		SY976921	SZ08/04/1 7	Poole Harbour (SMU 17)	18-Jun-84	McGibbon , Mr R.	English Nature (1997)	mud/saltm /reedb/oth er	326390
Vicia cracca	Tufted Vetch		SY980924	SZ08/04/1 7	Poole Harbour (SMU 17)	18-Jun-84	McGibbon , Mr R.	English Nature (1997)	mud/saltm /reedb/oth er	326317
Medicago lupulina	Black Medick		SY980924	SZ08/04/1 7	Poole Harbour (SMU 17)	18-Jun-84	McGibbon , Mr R.	English Nature (1997)	mud/saltm /reedb/oth er	326320

Trifolium repens	White Clover		SY976923	SZ08/04/17	Poole Harbour (SMU 17)	18-Jun-84	McGibbon, Mr R.	English Nature (1997)	mud/saltm /reedb/other	326435
Trifolium repens	White Clover		SY980924	SZ08/04/17	Poole Harbour (SMU 17)	18-Jun-84	McGibbon, Mr R.	English Nature (1997)	mud/saltm /reedb/other	326319
Trifolium pratense	Red Clover		SY980924	SZ08/04/17	Poole Harbour (SMU 17)	18-Jun-84	McGibbon, Mr R.	English Nature (1997)	mud/saltm /reedb/other	326318
Ulex europaeus	Gorse		SY976923	SZ08/04/17	Poole Harbour (SMU 17)	18-Jun-84	McGibbon, Mr R.	English Nature (1997)	mud/saltm /reedb/other	326421
Ulex europaeus	Gorse		SY979922	SZ08/04/17	Poole Harbour (SMU 17)	18-Jun-84	McGibbon, Mr R.	English Nature (1997)	mud/saltm /reedb/other	326358
Ulex europaeus	Gorse		SY980924	SZ08/04/17	Poole Harbour (SMU 17)	18-Jun-84	McGibbon, Mr R.	English Nature (1997)	mud/saltm /reedb/other	326321
Hydrocotyle vulgaris	Marsh Pennywort	DN	SY976923	SZ08/04/17	Poole Harbour (SMU 17)	18-Jun-84	McGibbon, Mr R.	English Nature (1997)	mud/saltm /reedb/other	326425
Hydrocotyle vulgaris	Marsh Pennywort	DN	SY980924	SZ08/04/17	Poole Harbour (SMU 17)	18-Jun-84	McGibbon, Mr R.	English Nature (1997)	mud/saltm /reedb/other	326331
Oenanthe lachenalii	Parsley Water-dropwort	DN	SY973925	SZ08/04/17	Poole Harbour (SMU 17)	18-Jun-84	McGibbon, Mr R.	English Nature (1997)	mud/saltm /reedb/other	326468
Plantago maritima	Sea Plantain		SY976923	SZ08/04/17	Poole Harbour (SMU 17)	18-Jun-84	McGibbon, Mr R.	English Nature (1997)	mud/saltm /reedb/other	326436
Plantago maritima	Sea Plantain		SY979922	SZ08/04/17	Poole Harbour (SMU 17)	18-Jun-84	McGibbon, Mr R.	English Nature (1997)	mud/saltm /reedb/other	326356
Plantago maritima	Sea Plantain		SY981922	SZ08/04/17	Poole Harbour (SMU 17)	18-Jun-84	McGibbon, Mr R.	English Nature (1997)	mud/saltm /reedb/other	326345
Galium palustre	Common Marsh-bedstraw		SY973925	SZ08/04/17	Poole Harbour (SMU 17)	18-Jun-84	McGibbon, Mr R.	English Nature (1997)	mud/saltm /reedb/other	326473
Succisa pratensis	Devil's-bit Scabious	DN	SY976923	SZ08/04/17	Poole Harbour (SMU 17)	18-Jun-84	McGibbon, Mr R.	English Nature (1997)	mud/saltm /reedb/other	326422
Aster tripolium	Sea Aster	DN	SY973925	SZ08/04/17	Poole Harbour (SMU 17)	18-Jun-84	McGibbon, Mr R.	English Nature (1997)	mud/saltm /reedb/other	326479
Aster tripolium	Sea Aster	DN	SY976921	SZ08/04/17	Poole Harbour (SMU 17)	18-Jun-84	McGibbon, Mr R.	English Nature (1997)	mud/saltm /reedb/other	326398
Aster tripolium	Sea Aster	DN	SY979922	SZ08/04/17	Poole Harbour (SMU 17)	18-Jun-84	McGibbon, Mr R.	English Nature (1997)	mud/saltm /reedb/other	326354
Aster tripolium	Sea Aster	DN	SY981922	SZ08/04/17	Poole Harbour (SMU 17)	18-Jun-84	McGibbon, Mr R.	English Nature (1997)	mud/saltm /reedb/other	326343
Triglochin maritimum	Sea Arrowgrasses	DN	SY973925	SZ08/04/17	Poole Harbour (SMU 17)	18-Jun-84	McGibbon, Mr R.	English Nature (1997)	mud/saltm /reedb/other	326472
Triglochin maritimum	Sea Arrowgrasses	DN	SY976921	SZ08/04/17	Poole Harbour (SMU 17)	18-Jun-84	McGibbon, Mr R.	English Nature (1997)	mud/saltm /reedb/other	326395
Triglochin maritimum	Sea Arrowgrasses	DN	SY976921	SZ08/04/17	Poole Harbour (SMU 17)	18-Jun-84	McGibbon, Mr R.	English Nature (1997)	mud/saltm /reedb/other	326397
Triglochin maritimum	Sea Arrowgrasses	DN	SY979922	SZ08/04/17	Poole Harbour (SMU 17)	18-Jun-84	McGibbon, Mr R.	English Nature (1997)	mud/saltm /reedb/other	326357
Triglochin maritimum	Sea Arrowgrasses	DN	SY981922	SZ08/04/17	Poole Harbour (SMU 17)	18-Jun-84	McGibbon, Mr R.	English Nature (1997)	mud/saltm /reedb/other	326344
Juncus gerardii	Saltmarsh Rush		SY973925	SZ08/04/17	Poole Harbour (SMU 17)	18-Jun-84	McGibbon, Mr R.	English Nature (1997)	mud/saltm /reedb/other	326477
Juncus gerardii	Saltmarsh Rush		SY976923	SZ08/04/17	Poole Harbour (SMU 17)	18-Jun-84	McGibbon, Mr R.	English Nature (1997)	mud/saltm /reedb/other	326437
Juncus gerardii	Saltmarsh Rush		SY979922	SZ08/04/17	Poole Harbour (SMU 17)	18-Jun-84	McGibbon, Mr R.	English Nature (1997)	mud/saltm /reedb/other	326353
Juncus gerardii	Saltmarsh Rush		SY981922	SZ08/04/17	Poole Harbour (SMU 17)	18-Jun-84	McGibbon, Mr R.	English Nature (1997)	mud/saltm /reedb/other	326348

Juncus subnodulosus	Blunt-flowered Rush	DN	SY973925	SZ08/04/17	Poole Harbour (SMU 17)	18-Jun-84	McGibbon, Mr R.	English Nature (1997)	mud/saltm/reedb/other	326467
Juncus subnodulosus	Blunt-flowered Rush	DN	SY980924	SZ08/04/17	Poole Harbour (SMU 17)	18-Jun-84	McGibbon, Mr R.	English Nature (1997)	mud/saltm/reedb/other	326335
Juncus articulatus	Jointed Rush		SY980924	SZ08/04/17	Poole Harbour (SMU 17)	18-Jun-84	McGibbon, Mr R.	English Nature (1997)	mud/saltm/reedb/other	326333
Juncus maritimus	Sea Rush		SY973925	SZ08/04/17	Poole Harbour (SMU 17)	18-Jun-84	McGibbon, Mr R.	English Nature (1997)	mud/saltm/reedb/other	326466
Juncus maritimus	Sea Rush		SY976921	SZ08/04/17	Poole Harbour (SMU 17)	18-Jun-84	McGibbon, Mr R.	English Nature (1997)	mud/saltm/reedb/other	326393
Juncus maritimus	Sea Rush		SY976923	SZ08/04/17	Poole Harbour (SMU 17)	18-Jun-84	McGibbon, Mr R.	English Nature (1997)	mud/saltm/reedb/other	326424
Juncus maritimus	Sea Rush		SY979922	SZ08/04/17	Poole Harbour (SMU 17)	18-Jun-84	McGibbon, Mr R.	English Nature (1997)	mud/saltm/reedb/other	326350
Eleocharis palustris	Common Spike-rush		SY980924	SZ08/04/17	Poole Harbour (SMU 17)	18-Jun-84	McGibbon, Mr R.	English Nature (1997)	mud/saltm/reedb/other	326336
Bolboschoenus maritimus	Sea Club-rush	DN	SY973925	SZ08/04/17	Poole Harbour (SMU 17)	18-Jun-84	McGibbon, Mr R.	English Nature (1997)	mud/saltm/reedb/other	326474
Bolboschoenus maritimus	Sea Club-rush	DN	SY973925	SZ08/04/17	Poole Harbour (SMU 17)	18-Jun-84	McGibbon, Mr R.	English Nature (1997)	mud/saltm/reedb/other	326476
Bolboschoenus maritimus	Sea Club-rush	DN	SY981922	SZ08/04/17	Poole Harbour (SMU 17)	18-Jun-84	McGibbon, Mr R.	English Nature (1997)	mud/saltm/reedb/other	326339
Schoenus nigricans	Black Bog-rush	DN	SY980924	SZ08/04/17	Poole Harbour (SMU 17)	18-Jun-84	McGibbon, Mr R.	English Nature (1997)	mud/saltm/reedb/other	326328
Schoenus nigricans	Black Bog-rush	DN	SY981924	SZ08/04/17	Poole Harbour (SMU 17)	18-Jun-84	McGibbon, Mr R.	English Nature (1997)	mud/saltm/reedb/other	326338
Carex riparia	Great Pond-sedge		SY976923	SZ08/04/17	Poole Harbour (SMU 17)	18-Jun-84	McGibbon, Mr R.	English Nature (1997)	mud/saltm/reedb/other	326426
Festuca rubra sens.str.	Red Fescue		SY973925	SZ08/04/17	Poole Harbour (SMU 17)	18-Jun-84	McGibbon, Mr R.	English Nature (1997)	mud/saltm/reedb/other	326471
Festuca rubra sens.str.	Red Fescue		SY976921	SZ08/04/17	Poole Harbour (SMU 17)	18-Jun-84	McGibbon, Mr R.	English Nature (1997)	mud/saltm/reedb/other	326388
Festuca rubra sens.str.	Red Fescue		SY976921	SZ08/04/17	Poole Harbour (SMU 17)	18-Jun-84	McGibbon, Mr R.	English Nature (1997)	mud/saltm/reedb/other	326396
Festuca rubra sens.str.	Red Fescue		SY976923	SZ08/04/17	Poole Harbour (SMU 17)	18-Jun-84	McGibbon, Mr R.	English Nature (1997)	mud/saltm/reedb/other	326432
Festuca rubra sens.str.	Red Fescue		SY979922	SZ08/04/17	Poole Harbour (SMU 17)	18-Jun-84	McGibbon, Mr R.	English Nature (1997)	mud/saltm/reedb/other	326351
Festuca rubra sens.str.	Red Fescue		SY981922	SZ08/04/17	Poole Harbour (SMU 17)	18-Jun-84	McGibbon, Mr R.	English Nature (1997)	mud/saltm/reedb/other	326347
Lolium perenne	Perennial Rye-grass		SY976923	SZ08/04/17	Poole Harbour (SMU 17)	18-Jun-84	McGibbon, Mr R.	English Nature (1997)	mud/saltm/reedb/other	326434
Lolium perenne	Perennial Rye-grass		SY980924	SZ08/04/17	Poole Harbour (SMU 17)	18-Jun-84	McGibbon, Mr R.	English Nature (1997)	mud/saltm/reedb/other	326314
Puccinellia maritima	Common Saltmarsh-grass		SY976921	SZ08/04/17	Poole Harbour (SMU 17)	18-Jun-84	McGibbon, Mr R.	English Nature (1997)	mud/saltm/reedb/other	326392
Puccinellia maritima	Common Saltmarsh-grass		SY976923	SZ08/04/17	Poole Harbour (SMU 17)	18-Jun-84	McGibbon, Mr R.	English Nature (1997)	mud/saltm/reedb/other	326431
Dactylis glomerata	Cock's-foot		SY980924	SZ08/04/17	Poole Harbour (SMU 17)	18-Jun-84	McGibbon, Mr R.	English Nature (1997)	mud/saltm/reedb/other	326316
Holcus lanatus	Yorkshire-fog		SY980924	SZ08/04/17	Poole Harbour (SMU 17)	18-Jun-84	McGibbon, Mr R.	English Nature (1997)	mud/saltm/reedb/other	326315
Elytrigia atherica	Sea Couch		SY973925	SZ08/04/17	Poole Harbour (SMU 17)	18-Jun-84	McGibbon, Mr R.	English Nature (1997)	mud/saltm/reedb/other	326475

<i>Elytrigia atherica</i>	Sea Couch	SY976921	SZ08/04/17	Poole Harbour (SMU 17)	18-Jun-84	McGibbon, Mr R.	English Nature (1997)	mud/saltm /reedb/other	326387
<i>Elytrigia atherica</i>	Sea Couch	SY976923	SZ08/04/17	Poole Harbour (SMU 17)	18-Jun-84	McGibbon, Mr R.	English Nature (1997)	mud/saltm /reedb/other	326433
<i>Elytrigia atherica</i>	Sea Couch	SY979922	SZ08/04/17	Poole Harbour (SMU 17)	18-Jun-84	McGibbon, Mr R.	English Nature (1997)	mud/saltm /reedb/other	326355
<i>Elytrigia atherica</i>	Sea Couch	SY981922	SZ08/04/17	Poole Harbour (SMU 17)	18-Jun-84	McGibbon, Mr R.	English Nature (1997)	mud/saltm /reedb/other	326346
<i>Molinia caerulea</i>	Purple Moor-grass	SY976923	SZ08/04/17	Poole Harbour (SMU 17)	18-Jun-84	McGibbon, Mr R.	English Nature (1997)	mud/saltm /reedb/other	326418
<i>Molinia caerulea</i>	Purple Moor-grass	SY980924	SZ08/04/17	Poole Harbour (SMU 17)	18-Jun-84	McGibbon, Mr R.	English Nature (1997)	mud/saltm /reedb/other	326330
<i>Phragmites australis</i>	Common Reed	SY973925	SZ08/04/17	Poole Harbour (SMU 17)	18-Jun-84	McGibbon, Mr R.	English Nature (1997)	mud/saltm /reedb/other	326465
<i>Phragmites australis</i>	Common Reed	SY976921	SZ08/04/17	Poole Harbour (SMU 17)	18-Jun-84	McGibbon, Mr R.	English Nature (1997)	mud/saltm /reedb/other	326391
<i>Phragmites australis</i>	Common Reed	SY979922	SZ08/04/17	Poole Harbour (SMU 17)	18-Jun-84	McGibbon, Mr R.	English Nature (1997)	mud/saltm /reedb/other	326349
<i>Phragmites australis</i>	Common Reed	SY980924	SZ08/04/17	Poole Harbour (SMU 17)	18-Jun-84	McGibbon, Mr R.	English Nature (1997)	mud/saltm /reedb/other	326334
<i>Phragmites australis</i>	Common Reed	SY981922	SZ08/04/17	Poole Harbour (SMU 17)	18-Jun-84	McGibbon, Mr R.	English Nature (1997)	mud/saltm /reedb/other	326340
<i>Omocestus viridulus</i>	Common Green Grasshopper	SY976923	SZ08/04/17	Poole Harbour (SMU 17)	18-Jun-84	McGibbon, Mr R.	English Nature (1997)	mud/saltm /reedb/other	326439
<i>Chorthippus brunneus</i>	Common Field Grasshopper	SY980924	SZ08/04/17	Poole Harbour (SMU 17)	18-Jun-84	McGibbon, Mr R.	English Nature (1997)	mud/saltm /reedb/other	326325
<i>Ochiodes venata faunus</i>	Large Skipper	SY980924	SZ08/04/17	Poole Harbour (SMU 17)	18-Jun-84	McGibbon, Mr R.	English Nature (1997)	mud/saltm /reedb/other	326324
<i>Polyommatus icarus</i>	Common Blue	SY980924	SZ08/04/17	Poole Harbour (SMU 17)	18-Jun-84	McGibbon, Mr R.	English Nature (1997)	mud/saltm /reedb/other	326323
<i>Pteridium aquilinum</i>	Bracken	SY976923	SZ08/04/18	Poole Harbour (SMU 18)	18-Jun-84	McGibbon, Mr R.	English Nature (1997)	reedb	326405
<i>Pteridium aquilinum</i>	Bracken	SY977922	SZ08/04/18	Poole Harbour (SMU 18)	18-Jun-84	McGibbon, Mr R.	English Nature (1997)	reedb	326370
<i>Betula sp.</i>	a birch	SY976923	SZ08/04/18	Poole Harbour (SMU 18)	18-Jun-84	McGibbon, Mr R.	English Nature (1997)	reedb	326401
<i>Betula sp.</i>	a birch	SY977924	SZ08/04/18	Poole Harbour (SMU 18)	18-Jun-84	McGibbon, Mr R.	English Nature (1997)	reedb	326411
<i>Armeria maritima</i>	Thrift	SY976923	SZ08/04/18	Poole Harbour (SMU 18)	18-Jun-84	McGibbon, Mr R.	English Nature (1997)	reedb	326410
<i>Salix cinerea</i>	Grey Willow	SY977922	SZ08/04/18	Poole Harbour (SMU 18)	18-Jun-84	McGibbon, Mr R.	English Nature (1997)	reedb	326386
<i>Salix cinerea</i>	Grey Willow	SY977924	SZ08/04/18	Poole Harbour (SMU 18)	18-Jun-84	McGibbon, Mr R.	English Nature (1997)	reedb	326412
<i>Calluna vulgaris</i>	Heather	SY976923	SZ08/04/18	Poole Harbour (SMU 18)	18-Jun-84	McGibbon, Mr R.	English Nature (1997)	reedb	326400
<i>Erica tetralix</i>	Cross-leaved Heath	SY977922	SZ08/04/18	Poole Harbour (SMU 18)	18-Jun-84	McGibbon, Mr R.	English Nature (1997)	reedb	326382
<i>Erica cinerea</i>	Bell Heather	SY976923	SZ08/04/18	Poole Harbour (SMU 18)	18-Jun-84	McGibbon, Mr R.	English Nature (1997)	reedb	326403
<i>Erica cinerea</i>	Bell Heather	SY977922	SZ08/04/18	Poole Harbour (SMU 18)	18-Jun-84	McGibbon, Mr R.	English Nature (1997)	reedb	326379
<i>Rubus</i>	Bramble	SY977922	SZ08/04/18	Poole Harbour (SMU 18)	18-Jun-84	McGibbon, Mr R.	English Nature (1997)	reedb	326371

fruticosus agg.			8	Harbour (SMU 18)		, Mr R.	Nature (1997)		
Rubus fruticosus agg.	Bramble		SY977924	SZ08/04/1 8	Poole Harbour (SMU 18)	18-Jun-84	McGibbon , Mr R.	English Nature (1997)	reedb 326414
Potentilla erecta	Tormentil	DN	SY977922	SZ08/04/1 8	Poole Harbour (SMU 18)	18-Jun-84	McGibbon , Mr R.	English Nature (1997)	reedb 326381
Potentilla reptans	Creeping Cinquefoil		SY977924	SZ08/04/1 8	Poole Harbour (SMU 18)	18-Jun-84	McGibbon , Mr R.	English Nature (1997)	reedb 326415
Ulex europaeus	Gorse		SY976923	SZ08/04/1 8	Poole Harbour (SMU 18)	18-Jun-84	McGibbon , Mr R.	English Nature (1997)	reedb 326402
Ulex europaeus	Gorse		SY977922	SZ08/04/1 8	Poole Harbour (SMU 18)	18-Jun-84	McGibbon , Mr R.	English Nature (1997)	reedb 326372
Ulex europaeus	Gorse		SY977924	SZ08/04/1 8	Poole Harbour (SMU 18)	18-Jun-84	McGibbon , Mr R.	English Nature (1997)	reedb 326417
Hydrocotyl e vulgaris	Marsh Pennywort	DN	SY977922	SZ08/04/1 8	Poole Harbour (SMU 18)	18-Jun-84	McGibbon , Mr R.	English Nature (1997)	reedb 326384
Conopodi um majus	Pignut	DN	SY977922	SZ08/04/1 8	Poole Harbour (SMU 18)	18-Jun-84	McGibbon , Mr R.	English Nature (1997)	reedb 326373
Plantago maritima	Sea Plantain		SY976923	SZ08/04/1 8	Poole Harbour (SMU 18)	18-Jun-84	McGibbon , Mr R.	English Nature (1997)	reedb 326409
Digitalis purpurea	Foxglove		SY977922	SZ08/04/1 8	Poole Harbour (SMU 18)	18-Jun-84	McGibbon , Mr R.	English Nature (1997)	reedb 326374
Triglochin maritimum	Sea Arrowgrass	DN	SY976923	SZ08/04/1 8	Poole Harbour (SMU 18)	18-Jun-84	McGibbon , Mr R.	English Nature (1997)	reedb 326408
Juncus maritimus	Sea Rush		SY977922	SZ08/04/1 8	Poole Harbour (SMU 18)	18-Jun-84	McGibbon , Mr R.	English Nature (1997)	reedb 326383
Juncus conglomer atus	Compact Rush		SY977924	SZ08/04/1 8	Poole Harbour (SMU 18)	18-Jun-84	McGibbon , Mr R.	English Nature (1997)	reedb 326416
Festuca ovina sens.str.	Sheep's Fescue		SY977922	SZ08/04/1 8	Poole Harbour (SMU 18)	18-Jun-84	McGibbon , Mr R.	English Nature (1997)	reedb 326376
Holcus mollis	Creeping Soft-grass		SY977922	SZ08/04/1 8	Poole Harbour (SMU 18)	18-Jun-84	McGibbon , Mr R.	English Nature (1997)	reedb 326375
Holcus mollis	Creeping Soft-grass		SY977924	SZ08/04/1 8	Poole Harbour (SMU 18)	18-Jun-84	McGibbon , Mr R.	English Nature (1997)	reedb 326413
Agrostis curtisii	Bristle Bent	DN	SY977922	SZ08/04/1 8	Poole Harbour (SMU 18)	18-Jun-84	McGibbon , Mr R.	English Nature (1997)	reedb 326377
Elytrigia atherica	Sea Couch		SY976923	SZ08/04/1 8	Poole Harbour (SMU 18)	18-Jun-84	McGibbon , Mr R.	English Nature (1997)	reedb 326407
Danthonia decumben s	Heath- grass	DN	SY977922	SZ08/04/1 8	Poole Harbour (SMU 18)	18-Jun-84	McGibbon , Mr R.	English Nature (1997)	reedb 326378
Molinia caerulea	Purple Moor- grass		SY976923	SZ08/04/1 8	Poole Harbour (SMU 18)	18-Jun-84	McGibbon , Mr R.	English Nature (1997)	reedb 326404
Molinia caerulea	Purple Moor- grass		SY977922	SZ08/04/1 8	Poole Harbour (SMU 18)	18-Jun-84	McGibbon , Mr R.	English Nature (1997)	reedb 326380
Phragmite s australis	Common Reed		SY976923	SZ08/04/1 8	Poole Harbour (SMU 18)	18-Jun-84	McGibbon , Mr R.	English Nature (1997)	reedb 326406
Phragmite s australis	Common Reed		SY977922	SZ08/04/1 8	Poole Harbour (SMU 18)	18-Jun-84	McGibbon , Mr R.	English Nature (1997)	reedb 326385
Cladonia portentosa	a lichen		SY972926	SZ08/04/2 0	Poole Harbour (SMU 20)	Jun-84	McGibbon , Mr R.	English Nature (1997)	reedb 325851
Sphagnum compactum	a bog moss		SY972926	SZ08/04/2 0	Poole Harbour (SMU 20)	Jun-84	McGibbon , Mr R.	English Nature (1997)	reedb 325856
Sphagnum subsecun	a bog moss	Nationally Scarce	SY972926	SZ08/04/2 0	Poole Harbour (SMU 20)	Jun-84	McGibbon , Mr R.	English Nature (1997)	reedb 325858

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Sphagnum	a bog moss		SY972926	SZ08/04/2	Poole Harbour (SMU 20)	Jun-84	McGibbon, Mr R.	English Nature (1997)	reedb	325857
tenellum				0						
Dicranum scoparium	a moss		SY972926	SZ08/04/2	Poole Harbour (SMU 20)	Jun-84	McGibbon, Mr R.	English Nature (1997)	reedb	325852
				0						
Pteridium aquilinum	Bracken		SY972926	SZ08/04/2	Poole Harbour (SMU 20)	Jun-84	McGibbon, Mr R.	English Nature (1997)	reedb	325847
				0						
Dryopteris dilatata	Broad Buckler-fern		SY972926	SZ08/04/2	Poole Harbour (SMU 20)	Jun-84	McGibbon, Mr R.	English Nature (1997)	reedb	325848
				0						
Pinus sylvestris	Scots Pine	Nationally Scarce	SY972926	SZ08/04/2	Poole Harbour (SMU 20)	Jun-84	McGibbon, Mr R.	English Nature (1997)	reedb	325854
				0						
Myrica gale	Bog Myrtle	DN	SY972926	SZ08/04/2	Poole Harbour (SMU 20)	Jun-84	McGibbon, Mr R.	English Nature (1997)	reedb	325855
				0						
Betula sp.	a birch		SY972926	SZ08/04/2	Poole Harbour (SMU 20)	Jun-84	McGibbon, Mr R.	English Nature (1997)	reedb	325842
				0						
Drosera rotundifolia	Round-leaved Sundew	DN	SY972926	SZ08/04/2	Poole Harbour (SMU 20)	Jun-84	McGibbon, Mr R.	English Nature (1997)	reedb	325860
				0						
Salix cinerea	Grey Willow		SY972926	SZ08/04/2	Poole Harbour (SMU 20)	Jun-84	McGibbon, Mr R.	English Nature (1997)	reedb	325863
				0						
Calluna vulgaris	Heather		SY971927	SZ08/04/2	Poole Harbour (SMU 20)	APR 1983 - MAY 1983	Alexander, Mr I.	English Nature (1997)	reedb	326518
				0						
Calluna vulgaris	Heather		SY972926	SZ08/04/2	Poole Harbour (SMU 20)	Jun-84	McGibbon, Mr R.	English Nature (1997)	reedb	325849
				0						
Erica tetralix	Cross-leaved Heath		SY971927	SZ08/04/2	Poole Harbour (SMU 20)	APR 1983 - MAY 1983	Alexander, Mr I.	English Nature (1997)	reedb	326519
				0						
Erica tetralix	Cross-leaved Heath		SY972926	SZ08/04/2	Poole Harbour (SMU 20)	Jun-84	McGibbon, Mr R.	English Nature (1997)	reedb	325850
				0						
Sorbus aucuparia	Rowan		SY972926	SZ08/04/2	Poole Harbour (SMU 20)	Jun-84	McGibbon, Mr R.	English Nature (1997)	reedb	325843
				0						
Ulex europaeus	Gorse		SY972926	SZ08/04/2	Poole Harbour (SMU 20)	Jun-84	McGibbon, Mr R.	English Nature (1997)	reedb	325844
				0						
Ulex gallii	Western Gorse	DN	SY972926	SZ08/04/2	Poole Harbour (SMU 20)	Jun-84	McGibbon, Mr R.	English Nature (1997)	reedb	325845
				0						
Hydrocotyle vulgaris	Marsh Pennywort	DN	SY972926	SZ08/04/2	Poole Harbour (SMU 20)	Jun-84	McGibbon, Mr R.	English Nature (1997)	reedb	325865
				0						
Oenanthe crocata	Hemlock Water-dropwort		SY972926	SZ08/04/2	Poole Harbour (SMU 20)	Jun-84	McGibbon, Mr R.	English Nature (1997)	reedb	325864
				0						
Angelica sylvestris	Wild Angelica		SY972926	SZ08/04/2	Poole Harbour (SMU 20)	Jun-84	McGibbon, Mr R.	English Nature (1997)	reedb	325866
				0						
Scutellaria galericulata	Skullcap	DN	SY972926	SZ08/04/2	Poole Harbour (SMU 20)	Jun-84	McGibbon, Mr R.	English Nature (1997)	reedb	325867
				0						
Juncus subnodulosus	Blunt-flowered Rush	DN	SY972926	SZ08/04/2	Poole Harbour (SMU 20)	Jun-84	McGibbon, Mr R.	English Nature (1997)	reedb	325862
				0						
Trichophorum cespitosum	Deergrass	DN	SY972926	SZ08/04/2	Poole Harbour (SMU 20)	Jun-84	McGibbon, Mr R.	English Nature (1997)	reedb	325853
				0						
Schoenus nigricans	Black Bog-rush	DN	SY972926	SZ08/04/2	Poole Harbour (SMU 20)	Jun-84	McGibbon, Mr R.	English Nature (1997)	reedb	325859
				0						
Carex disticha	Brown Sedge	DN	SY972926	SZ08/04/2	Poole Harbour (SMU 20)	Jun-84	McGibbon, Mr R.	English Nature (1997)	reedb	325868
				0						
Molinia caerulea	Purple Moor-grass		SY971927	SZ08/04/2	Poole Harbour (SMU 20)	APR 1983 - MAY 1983	Alexander, Mr I.	English Nature (1997)	reedb	326520
				0						
Molinia caerulea	Purple Moor-grass		SY972926	SZ08/04/2	Poole Harbour (SMU 20)	Jun-84	McGibbon, Mr R.	English Nature (1997)	reedb	325846
				0						
Narthecium	Bog	DN	SY972926	SZ08/04/2	Poole	Jun-84	McGibbon	English	reedb	325861

m ossifragu m	Asphodel		0	Harbour (SMU 20)		, Mr R.	Nature (1997)			
Ranuncul us acris	Meadow Buttercup		SY970926	SZ08/04/2 1	Poole Harbour (SMU 21)	Jun-84	McGibbon , Mr R.	English Nature (1997)	saltm/reed b/other	325886
Ranuncul us repens	Creeping Buttercup		SY967923	SZ08/04/2 1	Poole Harbour (SMU 21)	Jun-84	McGibbon , Mr R.	English Nature (1997)	saltm/reed b/other	325979
Ranuncul us flammula	Lesser Spearwort		SY970926	SZ08/04/2 1	Poole Harbour (SMU 21)	Jun-84	McGibbon , Mr R.	English Nature (1997)	saltm/reed b/other	325887
Quercus robur	Peduncula te Oak		SY967923	SZ08/04/2 1	Poole Harbour (SMU 21)	Jun-84	McGibbon , Mr R.	English Nature (1997)	saltm/reed b/other	325988
Betula sp.	a birch		SY967923	SZ08/04/2 1	Poole Harbour (SMU 21)	Jun-84	McGibbon , Mr R.	English Nature (1997)	saltm/reed b/other	325989
Stellaria graminea	Lesser Stitchwort		SY967923	SZ08/04/2 1	Poole Harbour (SMU 21)	Jun-84	McGibbon , Mr R.	English Nature (1997)	saltm/reed b/other	325973
Rumex acetosa	Common Sorrel		SY967923	SZ08/04/2 1	Poole Harbour (SMU 21)	Jun-84	McGibbon , Mr R.	English Nature (1997)	saltm/reed b/other	325975
Salix sp.	a willow		SY970926	SZ08/04/2 1	Poole Harbour (SMU 21)	Jun-84	McGibbon , Mr R.	English Nature (1997)	saltm/reed b/other	325882
Cardamin e pratensis	Cuckoo- flower		SY970926	SZ08/04/2 1	Poole Harbour (SMU 21)	Jun-84	McGibbon , Mr R.	English Nature (1997)	saltm/reed b/other	325896
Filipendul a ulmaria	Meadows weet		SY967923	SZ08/04/2 1	Poole Harbour (SMU 21)	Jun-84	McGibbon , Mr R.	English Nature (1997)	saltm/reed b/other	325981
Potentilla anserina	Silverwee d		SY970926	SZ08/04/2 1	Poole Harbour (SMU 21)	Jun-84	McGibbon , Mr R.	English Nature (1997)	saltm/reed b/other	325897
Potentilla erecta	Tormentil	DN	SY970926	SZ08/04/2 1	Poole Harbour (SMU 21)	Jun-84	McGibbon , Mr R.	English Nature (1997)	saltm/reed b/other	325898
Prunus spinosa	Blackthorn		SY967923	SZ08/04/2 1	Poole Harbour (SMU 21)	Jun-84	McGibbon , Mr R.	English Nature (1997)	saltm/reed b/other	325987
Lotus peduncula tus	Large Bird's- foot-trefoil	DN	SY970926	SZ08/04/2 1	Poole Harbour (SMU 21)	APR 1983 - MAY 1983	Alexander , Mr I.	English Nature (1997)	saltm/reed b/other	326515
Vicia sativa	Common Vetch		SY967923	SZ08/04/2 1	Poole Harbour (SMU 21)	Jun-84	McGibbon , Mr R.	English Nature (1997)	saltm/reed b/other	325969
Lathyrus pratensis	Meadow Vetchling		SY967923	SZ08/04/2 1	Poole Harbour (SMU 21)	Jun-84	McGibbon , Mr R.	English Nature (1997)	saltm/reed b/other	325968
Trifolium pratense	Red Clover		SY967923	SZ08/04/2 1	Poole Harbour (SMU 21)	Jun-84	McGibbon , Mr R.	English Nature (1997)	saltm/reed b/other	325971
Ulex europaeus	Gorse		SY970926	SZ08/04/2 1	Poole Harbour (SMU 21)	Jun-84	McGibbon , Mr R.	English Nature (1997)	saltm/reed b/other	325881
Hydrocotyl e vulgaris	Marsh Pennywort	DN	SY970926	SZ08/04/2 1	Poole Harbour (SMU 21)	Jun-84	McGibbon , Mr R.	English Nature (1997)	saltm/reed b/other	325888
Mentha aquatica	Water Mint		SY970926	SZ08/04/2 1	Poole Harbour (SMU 21)	Jun-84	McGibbon , Mr R.	English Nature (1997)	saltm/reed b/other	325889
Plantago lanceolata	Ribwort Plantain		SY967923	SZ08/04/2 1	Poole Harbour (SMU 21)	Jun-84	McGibbon , Mr R.	English Nature (1997)	saltm/reed b/other	325977
Veronica chamaedr ys	Germande r Speedwell		SY967923	SZ08/04/2 1	Poole Harbour (SMU 21)	Jun-84	McGibbon , Mr R.	English Nature (1997)	saltm/reed b/other	325972
Galium palustre	Common Marsh- bedstraw		SY970926	SZ08/04/2 1	Poole Harbour (SMU 21)	Jun-84	McGibbon , Mr R.	English Nature (1997)	saltm/reed b/other	325902
Succisa pratensis	Devil's-bit Scabious	DN	SY970926	SZ08/04/2 1	Poole Harbour (SMU 21)	Jun-84	McGibbon , Mr R.	English Nature (1997)	saltm/reed b/other	325901
Cirsium dissectum	Meadow Thistle	DN	SY970926	SZ08/04/2 1	Poole Harbour (SMU 21)	APR 1983 - MAY 1983	Alexander , Mr I.	English Nature (1997)	saltm/reed b/other	326514
Cirsium dissectum	Meadow Thistle	DN	SY970926	SZ08/04/2 1	Poole Harbour (SMU 21)	Jun-84	McGibbon , Mr R.	English Nature (1997)	saltm/reed b/other	325890

Cirsium palustre	Marsh Thistle		SY970926	SZ08/04/2 1	Poole Harbour (SMU 21)	Jun-84	McGibbon , Mr R.	English Nature (1997)	saltm/reed b/other	325891
Cirsium arvense	Creeping Thistle		SY967923	SZ08/04/2 1	Poole Harbour (SMU 21)	Jun-84	McGibbon , Mr R.	English Nature (1997)	saltm/reed b/other	325974
Centaurea nigra	Common Knapweed	DN	SY967923	SZ08/04/2 1	Poole Harbour (SMU 21)	Jun-84	McGibbon , Mr R.	English Nature (1997)	saltm/reed b/other	325970
Taraxacu m officinale agg.	Dandelion		SY967923	SZ08/04/2 1	Poole Harbour (SMU 21)	Jun-84	McGibbon , Mr R.	English Nature (1997)	saltm/reed b/other	325976
Leucanthe mum vulgare	Oxeye Daisy	DN	SY967923	SZ08/04/2 1	Poole Harbour (SMU 21)	Jun-84	McGibbon , Mr R.	English Nature (1997)	saltm/reed b/other	325978
Juncus articulatus	Jointed Rush		SY970926	SZ08/04/2 1	Poole Harbour (SMU 21)	APR 1983 - MAY 1983	Alexander , Mr I.	English Nature (1997)	saltm/reed b/other	326513
Juncus articulatus	Jointed Rush		SY970926	SZ08/04/2 1	Poole Harbour (SMU 21)	Jun-84	McGibbon , Mr R.	English Nature (1997)	saltm/reed b/other	325884
Juncus effusus	Soft Rush		SY970926	SZ08/04/2 1	Poole Harbour (SMU 21)	Jun-84	McGibbon , Mr R.	English Nature (1997)	saltm/reed b/other	325883
Carex otrubae	False Fox- sedge		SY967923	SZ08/04/2 1	Poole Harbour (SMU 21)	Jun-84	McGibbon , Mr R.	English Nature (1997)	saltm/reed b/other	325985
Carex disticha	Brown Sedge	DN	SY967923	SZ08/04/2 1	Poole Harbour (SMU 21)	Jun-84	McGibbon , Mr R.	English Nature (1997)	saltm/reed b/other	325984
Carex ovalis	Oval Sedge		SY970926	SZ08/04/2 1	Poole Harbour (SMU 21)	Jun-84	McGibbon , Mr R.	English Nature (1997)	saltm/reed b/other	325899
Carex echinata	Star Sedge	DN	SY970926	SZ08/04/2 1	Poole Harbour (SMU 21)	Jun-84	McGibbon , Mr R.	English Nature (1997)	saltm/reed b/other	325894
Carex acutiformi s	Lesser Pond- sedge		SY967923	SZ08/04/2 1	Poole Harbour (SMU 21)	Jun-84	McGibbon , Mr R.	English Nature (1997)	saltm/reed b/other	325980
Carex riparia	Great Pond- sedge		SY967923	SZ08/04/2 1	Poole Harbour (SMU 21)	Jun-84	McGibbon , Mr R.	English Nature (1997)	saltm/reed b/other	325986
Carex panicea	Carnation Sedge	DN	SY970926	SZ08/04/2 1	Poole Harbour (SMU 21)	Jun-84	McGibbon , Mr R.	English Nature (1997)	saltm/reed b/other	325893
Carex pilulifera	Pill Sedge		SY970926	SZ08/04/2 1	Poole Harbour (SMU 21)	Jun-84	McGibbon , Mr R.	English Nature (1997)	saltm/reed b/other	325900
Carex nigra	Common Sedge		SY970926	SZ08/04/2 1	Poole Harbour (SMU 21)	Jun-84	McGibbon , Mr R.	English Nature (1997)	saltm/reed b/other	325895
Festuca rubra sens.str.	Red Fescue		SY967923	SZ08/04/2 1	Poole Harbour (SMU 21)	Jun-84	McGibbon , Mr R.	English Nature (1997)	saltm/reed b/other	325983
Lolium perenne	Perennial Rye-grass		SY967923	SZ08/04/2 1	Poole Harbour (SMU 21)	Jun-84	McGibbon , Mr R.	English Nature (1997)	saltm/reed b/other	325967
Dactylis glomerata	Cock's- foot		SY967923	SZ08/04/2 1	Poole Harbour (SMU 21)	Jun-84	McGibbon , Mr R.	English Nature (1997)	saltm/reed b/other	325965
Glyceria fluitans	Floating Sweet- grass		SY970926	SZ08/04/2 1	Poole Harbour (SMU 21)	Jun-84	McGibbon , Mr R.	English Nature (1997)	saltm/reed b/other	325892
Anthoxant hum	Sweet Vernal Grass		SY967923	SZ08/04/2 1	Poole Harbour (SMU 21)	Jun-84	McGibbon , Mr R.	English Nature (1997)	saltm/reed b/other	325966
Anthoxant hum	Sweet Vernal Grass		SY970926	SZ08/04/2 1	Poole Harbour (SMU 21)	Jun-84	McGibbon , Mr R.	English Nature (1997)	saltm/reed b/other	325885
Phragmite s australis	Common Reed		SY967923	SZ08/04/2 1	Poole Harbour (SMU 21)	Jun-84	McGibbon , Mr R.	English Nature (1997)	saltm/reed b/other	325982
Conoceph alus dorsalis	Short- winged Conehead	DN	SY970926	SZ08/04/2 1	Poole Harbour (SMU 21)	Jun-84	McGibbon , Mr R.	English Nature (1997)	saltm/reed b/other	325903
Gallinago gallinago	Snipe	AMBER	SY970926	SZ08/04/2 1	Poole Harbour (SMU 21)	APR 1983 - MAY 1983	Alexander , Mr I.	English Nature (1997)	saltm/reed b/other	326512
Evernia prunastri	a lichen		SY965920	SZ08/04/2 7	Poole Harbour	Jun-84	McGibbon , Mr R.	English Nature	mud/saltm /reedb/oth	325996

Parmelia caperata	a lichen		SY965920	SZ08/04/2 7	(SMU 27) Poole Harbour (SMU 27)	Jun-84	McGibbon, Mr R.	(1997) English Nature	er mud/saltm /reedb/other	325997
Leucobryum glaucum	a moss	DN	SY971925	SZ08/04/2 7	Poole Harbour (SMU 27)	Jun-84	McGibbon, Mr R.	(1997) English Nature	mud/saltm /reedb/other	325932
Mnium hornum	a moss		SY971925	SZ08/04/2 7	Poole Harbour (SMU 27)	Jun-84	McGibbon, Mr R.	(1997) English Nature	mud/saltm /reedb/other	325933
Pteridium aquilinum	Bracken		SY965920	SZ08/04/2 7	Poole Harbour (SMU 27)	Jun-84	McGibbon, Mr R.	(1997) English Nature	mud/saltm /reedb/other	326001
Dryopteris dilatata	Broad Buckler-fern		SY971925	SZ08/04/2 7	Poole Harbour (SMU 27)	Jun-84	McGibbon, Mr R.	(1997) English Nature	mud/saltm /reedb/other	325927
Myrica gale	Bog Myrtle	DN	SY972926	SZ08/04/2 7	Poole Harbour (SMU 27)	APR 1983 - MAY 1983	Alexander, Mr I.	(1997) English Nature	mud/saltm /reedb/other	326522
Quercus robur	Pedunculate Oak		SY965920	SZ08/04/2 7	Poole Harbour (SMU 27)	Jun-84	McGibbon, Mr R.	(1997) English Nature	mud/saltm /reedb/other	325995
Quercus robur	Pedunculate Oak		SY971925	SZ08/04/2 7	Poole Harbour (SMU 27)	Jun-84	McGibbon, Mr R.	(1997) English Nature	mud/saltm /reedb/other	325924
Quercus robur	Pedunculate Oak		SY972925	SZ08/04/2 7	Poole Harbour (SMU 27)	Jun-84	McGibbon, Mr R.	(1997) English Nature	mud/saltm /reedb/other	325913
Betula sp.	a birch		SY971925	SZ08/04/2 7	Poole Harbour (SMU 27)	Jun-84	McGibbon, Mr R.	(1997) English Nature	mud/saltm /reedb/other	325925
Alnus glutinosa	Alder		SY971926	SZ08/04/2 7	Poole Harbour (SMU 27)	APR 1983 - MAY 1983	Alexander, Mr I.	(1997) English Nature	mud/saltm /reedb/other	326516
Atriplex prostrata sens.str.	Spear-leaved Orache		SY969923	SZ08/04/2 7	Poole Harbour (SMU 27)	Jun-84	McGibbon, Mr R.	(1997) English Nature	mud/saltm /reedb/other	325963
Atriplex portulacoides	Sea Purslane		SY971913	SZ08/04/2 7	Poole Harbour (SMU 27)	Jun-84	McGibbon, Mr R.	(1997) English Nature	mud/saltm /reedb/other	326299
Atriplex portulacoides	Sea Purslane		SY971914	SZ08/04/2 7	Poole Harbour (SMU 27)	Jun-84	McGibbon, Mr R.	(1997) English Nature	mud/saltm /reedb/other	326311
Atriplex portulacoides	Sea Purslane		SY973923	SZ08/04/2 7	Poole Harbour (SMU 27)	Jun-84	McGibbon, Mr R.	(1997) English Nature	mud/saltm /reedb/other	325917
Atriplex portulacoides	Sea Purslane		SY973923	SZ08/04/2 7	Poole Harbour (SMU 27)	Jun-84	McGibbon, Mr R.	(1997) English Nature	mud/saltm /reedb/other	325919
Stellaria holostea	Greater Stitchwort		SY971925	SZ08/04/2 7	Poole Harbour (SMU 27)	Jun-84	McGibbon, Mr R.	(1997) English Nature	mud/saltm /reedb/other	325931
Salix sp.	a sallow		SY971926	SZ08/04/2 7	Poole Harbour (SMU 27)	APR 1983 - MAY 1983	Alexander, Mr I.	(1997) English Nature	mud/saltm /reedb/other	326517
Salix sp.	a sallow		SY971925	SZ08/04/2 7	Poole Harbour (SMU 27)	Jun-84	McGibbon, Mr R.	(1997) English Nature	mud/saltm /reedb/other	325921
Salix sp.	a sallow		SY972925	SZ08/04/2 7	Poole Harbour (SMU 27)	Jun-84	McGibbon, Mr R.	(1997) English Nature	mud/saltm /reedb/other	325912
Festuca rubra sens.str.	Red Fescue		SY969924	SZ08/04/2 8	Poole Harbour (SMU 28)	Jun-84	McGibbon, Mr R.	(1997) English Nature	other	325950
Cynosurus cristatus	Crested Dog's-tail		SY969924	SZ08/04/2 8	Poole Harbour (SMU 28)	Jun-84	McGibbon, Mr R.	(1997) English Nature	other	325944
Poa pratensis sens.str.	Smooth Meadow-grass		SY969924	SZ08/04/2 8	Poole Harbour (SMU 28)	Jun-84	McGibbon, Mr R.	(1997) English Nature	other	325938
Dactylis glomerata	Cock's-foot		SY969924	SZ08/04/2 8	Poole Harbour (SMU 28)	Jun-84	McGibbon, Mr R.	(1997) English Nature	other	325941
Holcus lanatus	Yorkshire-fog		SY969924	SZ08/04/2 8	Poole Harbour (SMU 28)	Jun-84	McGibbon, Mr R.	(1997) English Nature	other	325939
Anthoxanthum odoratum	Sweet Vernal Grass		SY969924	SZ08/04/2 8	Poole Harbour (SMU 28)	Jun-84	McGibbon, Mr R.	(1997) English Nature	other	325943
Alopecurus	Marsh Foxtail		SY969924	SZ08/04/2 8	Poole Harbour	Jun-84	McGibbon, Mr R.	(1997) English Nature	other	325947

geniculatus				(SMU 28)		(1997)				
Phragmites australis	Common Reed		SY969924	SZ08/04/28	Poole Harbour (SMU 28)	Jun-84	McGibbon, Mr R.	English Nature (1997)	other	325952
Chorthippus albonotatus	Lesser Marsh Grasshopper	DN	SY969924	SZ08/04/28	Poole Harbour (SMU 28)	Jun-84	McGibbon, Mr R.	English Nature (1997)	other	325953
Tadorna tadorna	Shelduck	AMBER	SY969924	SZ08/04/28	Poole Harbour (SMU 28)	Jun-84	McGibbon, Mr R.	English Nature (1997)	other	325955
Anas platyrhynchos	Mallard		SY969924	SZ08/04/28	Poole Harbour (SMU 28)	Jun-84	McGibbon, Mr R.	English Nature (1997)	other	325954
Vanellus vanellus	Lapwing	AMBER	SY969924	SZ08/04/28	Poole Harbour (SMU 28)	-1983	Alexander, Mr I.	English Nature (1997)	other	326526
Philomachus pugnax	Ruff	AMBER	SY969924	SZ08/04/28	Poole Harbour (SMU 28)	-1983	Alexander, Mr I.	English Nature (1997)	other	326527
Gallinago gallinago	Snipe	AMBER	SY969924	SZ08/04/28	Poole Harbour (SMU 28)	-1983	Alexander, Mr I.	English Nature (1997)	other	326525
Tringa erythropus	Spotted Redshank		SY969924	SZ08/04/28	Poole Harbour (SMU 28)	-1983	Alexander, Mr I.	English Nature (1997)	other	326531
Tringa totanus	Redshank	AMBER	SY969924	SZ08/04/28	Poole Harbour (SMU 28)	Jun-84	McGibbon, Mr R.	English Nature (1997)	other	325956
Tringa nebularia	Green Sandpiper	AMBER	SY969924	SZ08/04/28	Poole Harbour (SMU 28)	-1983	Alexander, Mr I.	English Nature (1997)	other	326530
Tringa ochropus	Green Sandpiper		SY969924	SZ08/04/28	Poole Harbour (SMU 28)	-1983	Alexander, Mr I.	English Nature (1997)	other	326528
Tringa glareola	Wood Sandpiper	AMBER	SY969924	SZ08/04/28	Poole Harbour (SMU 28)	-1983	Alexander, Mr I.	English Nature (1997)	other	326529
Glaux maritima	Sea-milkwort		SY966919	SZ08/04/27	Poole Harbour (SMU 27)	Jun-84	McGibbon, Mr R.	English Nature (1997)	mud/saltm /reedb/other	326010
Sedum anglicum	English Stonecrop	DN	SY971913	SZ08/04/27	Poole Harbour (SMU 27)	Jun-84	McGibbon, Mr R.	English Nature (1997)	mud/saltm /reedb/other	326295
Rubus fruticosus agg.	Bramble		SY971925	SZ08/04/27	Poole Harbour (SMU 27)	Jun-84	McGibbon, Mr R.	English Nature (1997)	mud/saltm /reedb/other	325930
Ulex europaeus	Gorse		SY965920	SZ08/04/27	Poole Harbour (SMU 27)	Jun-84	McGibbon, Mr R.	English Nature (1997)	mud/saltm /reedb/other	325999
Ilex aquifolium	Holly		SY965920	SZ08/04/27	Poole Harbour (SMU 27)	Jun-84	McGibbon, Mr R.	English Nature (1997)	mud/saltm /reedb/other	325998
Ilex aquifolium	Holly		SY971925	SZ08/04/27	Poole Harbour (SMU 27)	Jun-84	McGibbon, Mr R.	English Nature (1997)	mud/saltm /reedb/other	325926
Oenanthe crocata	Hemlock Water-dropwort		SY971925	SZ08/04/27	Poole Harbour (SMU 27)	Jun-84	McGibbon, Mr R.	English Nature (1997)	mud/saltm /reedb/other	325936
Callitriche sp.	Water-starwort		SY971925	SZ08/04/27	Poole Harbour (SMU 27)	Jun-84	McGibbon, Mr R.	English Nature (1997)	mud/saltm /reedb/other	325937
Plantago maritima	Sea Plantain		SY965920	SZ08/04/27	Poole Harbour (SMU 27)	Jun-84	McGibbon, Mr R.	English Nature (1997)	mud/saltm /reedb/other	325991
Plantago maritima	Sea Plantain		SY966919	SZ08/04/27	Poole Harbour (SMU 27)	Jun-84	McGibbon, Mr R.	English Nature (1997)	mud/saltm /reedb/other	326009
Plantago maritima	Sea Plantain		SY969923	SZ08/04/27	Poole Harbour (SMU 27)	Jun-84	McGibbon, Mr R.	English Nature (1997)	mud/saltm /reedb/other	325959
Plantago maritima	Sea Plantain		SY971913	SZ08/04/27	Poole Harbour (SMU 27)	Jun-84	McGibbon, Mr R.	English Nature (1997)	mud/saltm /reedb/other	326298
Plantago maritima	Sea Plantain		SY971914	SZ08/04/27	Poole Harbour (SMU 27)	Jun-84	McGibbon, Mr R.	English Nature (1997)	mud/saltm /reedb/other	326313
Plantago maritima	Sea Plantain		SY972925	SZ08/04/27	Poole Harbour (SMU 27)	Jun-84	McGibbon, Mr R.	English Nature (1997)	mud/saltm /reedb/other	325910

Plantago maritima	Sea Plantain		SY973923	SZ08/04/2 7	Poole Harbour (SMU 27)	Jun-84	McGibbon , Mr R.	English Nature (1997)	mud/saltm /reedb/oth er	325915
Pinguicula lusitanica	Pale Butterwort	DN	SY972926	SZ08/04/2 7	Poole Harbour (SMU 27)	APR 1983 - MAY 1983	Alexander , Mr I.	English Nature (1997)	mud/saltm /reedb/oth er	326524
Lonicera periclyme num	Honeysuc kle		SY965920	SZ08/04/2 7	Poole Harbour (SMU 27)	Jun-84	McGibbon , Mr R.	English Nature (1997)	mud/saltm /reedb/oth er	326002
Aster tripolium	Sea Aster	DN	SY971914	SZ08/04/2 7	Poole Harbour (SMU 27)	Jun-84	McGibbon , Mr R.	English Nature (1997)	mud/saltm /reedb/oth er	326312
Aster tripolium	Sea Aster	DN	SY972925	SZ08/04/2 7	Poole Harbour (SMU 27)	Jun-84	McGibbon , Mr R.	English Nature (1997)	mud/saltm /reedb/oth er	325909
Triglochin maritimum	Sea Arrowgras s	DN	SY965920	SZ08/04/2 7	Poole Harbour (SMU 27)	Jun-84	McGibbon , Mr R.	English Nature (1997)	mud/saltm /reedb/oth er	325993
Triglochin maritimum	Sea Arrowgras s	DN	SY969923	SZ08/04/2 7	Poole Harbour (SMU 27)	Jun-84	McGibbon , Mr R.	English Nature (1997)	mud/saltm /reedb/oth er	325960
Triglochin maritimum	Sea Arrowgras s	DN	SY973923	SZ08/04/2 7	Poole Harbour (SMU 27)	Jun-84	McGibbon , Mr R.	English Nature (1997)	mud/saltm /reedb/oth er	325916
Juncus gerardii	Saltmarsh Rush		SY965920	SZ08/04/2 7	Poole Harbour (SMU 27)	Jun-84	McGibbon , Mr R.	English Nature (1997)	mud/saltm /reedb/oth er	325992
Juncus subnodulo sus	Blunt- flowered Rush	DN	SY971925	SZ08/04/2 7	Poole Harbour (SMU 27)	Jun-84	McGibbon , Mr R.	English Nature (1997)	mud/saltm /reedb/oth er	325923
Juncus maritimus	Sea Rush		SY972925	SZ08/04/2 7	Poole Harbour (SMU 27)	Jun-84	McGibbon , Mr R.	English Nature (1997)	mud/saltm /reedb/oth er	325908
Bolboscho enus maritimus	Sea Club- rush	DN	SY966919	SZ08/04/2 7	Poole Harbour (SMU 27)	Jun-84	McGibbon , Mr R.	English Nature (1997)	mud/saltm /reedb/oth er	326008
Bolboscho enus maritimus	Sea Club- rush	DN	SY969923	SZ08/04/2 7	Poole Harbour (SMU 27)	Jun-84	McGibbon , Mr R.	English Nature (1997)	mud/saltm /reedb/oth er	325964
Bolboscho enus maritimus	Sea Club- rush	DN	SY972925	SZ08/04/2 7	Poole Harbour (SMU 27)	Jun-84	McGibbon , Mr R.	English Nature (1997)	mud/saltm /reedb/oth er	325911
Schoenus nigricans	Black Bog-rush	DN	SY972926	SZ08/04/2 7	Poole Harbour (SMU 27)	APR 1983 - MAY 1983	Alexander , Mr I.	English Nature (1997)	mud/saltm /reedb/oth er	326523
Festuca rubra sens.str.	Red Fescue		SY965920	SZ08/04/2 7	Poole Harbour (SMU 27)	Jun-84	McGibbon , Mr R.	English Nature (1997)	mud/saltm /reedb/oth er	325990
Festuca rubra sens.str.	Red Fescue		SY966919	SZ08/04/2 7	Poole Harbour (SMU 27)	Jun-84	McGibbon , Mr R.	English Nature (1997)	mud/saltm /reedb/oth er	326006
Festuca rubra sens.str.	Red Fescue		SY969923	SZ08/04/2 7	Poole Harbour (SMU 27)	Jun-84	McGibbon , Mr R.	English Nature (1997)	mud/saltm /reedb/oth er	325962
Festuca rubra sens.str.	Red Fescue		SY971913	SZ08/04/2 7	Poole Harbour (SMU 27)	Jun-84	McGibbon , Mr R.	English Nature (1997)	mud/saltm /reedb/oth er	326293
Festuca rubra sens.str.	Red Fescue		SY972925	SZ08/04/2 7	Poole Harbour (SMU 27)	Jun-84	McGibbon , Mr R.	English Nature (1997)	mud/saltm /reedb/oth er	325906
Descham psia caespitos a	Tufted Hair-grass		SY971925	SZ08/04/2 7	Poole Harbour (SMU 27)	Jun-84	McGibbon , Mr R.	English Nature (1997)	mud/saltm /reedb/oth er	325935
Holcus lanatus	Yorkshire- fog		SY971925	SZ08/04/2 7	Poole Harbour (SMU 27)	Jun-84	McGibbon , Mr R.	English Nature (1997)	mud/saltm /reedb/oth er	325928
Holcus mollis	Creeping Soft-grass		SY965920	SZ08/04/2 7	Poole Harbour (SMU 27)	Jun-84	McGibbon , Mr R.	English Nature (1997)	mud/saltm /reedb/oth er	326000
Holcus mollis	Creeping Soft-grass		SY971925	SZ08/04/2 7	Poole Harbour (SMU 27)	Jun-84	McGibbon , Mr R.	English Nature (1997)	mud/saltm /reedb/oth er	325929
Elytrigia atherica	Sea Couch		SY965920	SZ08/04/2 7	Poole Harbour (SMU 27)	Jun-84	McGibbon , Mr R.	English Nature (1997)	mud/saltm /reedb/oth er	325994
Elytrigia atherica	Sea Couch		SY966919	SZ08/04/2 7	Poole Harbour (SMU 27)	Jun-84	McGibbon , Mr R.	English Nature (1997)	mud/saltm /reedb/oth er	326005
Elytrigia atherica	Sea Couch		SY969923	SZ08/04/2 7	Poole Harbour	Jun-84	McGibbon , Mr R.	English Nature	mud/saltm /reedb/oth	325958

Elytrigia atherica	Sea Couch		SY969923	SZ08/04/2 7	(SMU 27) Poole Harbour (SMU 27)	Jun-84	McGibbon , Mr R.	(1997) English Nature (1997)	er mud/saltm /reedb/oth er	325961
Elytrigia atherica	Sea Couch		SY971913	SZ08/04/2 7	Poole Harbour (SMU 27)	Jun-84	McGibbon , Mr R.	English Nature (1997)	mud/saltm /reedb/oth er	326292
Elytrigia atherica	Sea Couch		SY972925	SZ08/04/2 7	Poole Harbour (SMU 27)	Jun-84	McGibbon , Mr R.	English Nature (1997)	mud/saltm /reedb/oth er	325907
Elytrigia atherica	Sea Couch		SY973923	SZ08/04/2 7	Poole Harbour (SMU 27)	Jun-84	McGibbon , Mr R.	English Nature (1997)	mud/saltm /reedb/oth er	325918
Molinia caerulea	Purple Moor- grass		SY972926	SZ08/04/2 7	Poole Harbour (SMU 27)	APR 1983 - MAY 1983	Alexander , Mr I.	English Nature (1997)	mud/saltm /reedb/oth er	326521
Molinia caerulea	Purple Moor- grass		SY971925	SZ08/04/2 7	Poole Harbour (SMU 27)	Jun-84	McGibbon , Mr R.	English Nature (1997)	mud/saltm /reedb/oth er	325934
Phragmite s australis	Common Reed		SY966919	SZ08/04/2 7	Poole Harbour (SMU 27)	Jun-84	McGibbon , Mr R.	English Nature (1997)	mud/saltm /reedb/oth er	326007
Phragmite s australis	Common Reed		SY969923	SZ08/04/2 7	Poole Harbour (SMU 27)	Jun-84	McGibbon , Mr R.	English Nature (1997)	mud/saltm /reedb/oth er	325957
Phragmite s australis	Common Reed		SY971925	SZ08/04/2 7	Poole Harbour (SMU 27)	Jun-84	McGibbon , Mr R.	English Nature (1997)	mud/saltm /reedb/oth er	325922
Phragmite s australis	Common Reed		SY972925	SZ08/04/2 7	Poole Harbour (SMU 27)	Jun-84	McGibbon , Mr R.	English Nature (1997)	mud/saltm /reedb/oth er	325904
Phragmite s australis	Common Reed		SY973923	SZ08/04/2 7	Poole Harbour (SMU 27)	Jun-84	McGibbon , Mr R.	English Nature (1997)	mud/saltm /reedb/oth er	325914
Conoceph alus dorsalis	Short- winged Conehead	DN	SY966919	SZ08/04/2 7	Poole Harbour (SMU 27)	Jun-84	McGibbon , Mr R.	English Nature (1997)	mud/saltm /reedb/oth er	326011
Tringa totanus	Redshank	AMBER	SY973923	SZ08/04/2 7	Poole Harbour (SMU 27)	Jun-84	McGibbon , Mr R.	English Nature (1997)	mud/saltm /reedb/oth er	325920
Acroceph alus scirpaceu s	Reed Warbler		SY964921	SZ08/04/2 7	Poole Harbour (SMU 27)	Jun-84	McGibbon , Mr R.	English Nature (1997)	mud/saltm /reedb/oth er	326003
Acroceph alus scirpaceu s	Reed Warbler		SY972925	SZ08/04/2 7	Poole Harbour (SMU 27)	Jun-84	McGibbon , Mr R.	English Nature (1997)	mud/saltm /reedb/oth er	325905
Emberiza schoeniclu s	Reed Bunting	RED	SY964921	SZ08/04/2 7	Poole Harbour (SMU 27)	Jun-84	McGibbon , Mr R.	English Nature (1997)	mud/saltm /reedb/oth er	326004
Ranuncul us repens	Creeping Buttercup		SY969924	SZ08/04/2 8	Poole Harbour (SMU 28)	Jun-84	McGibbon , Mr R.	English Nature (1997)	other	325945
Spergulari a media	Greater Sea- spurrey	DN	SY969924	SZ08/04/2 8	Poole Harbour (SMU 28)	Jun-84	McGibbon , Mr R.	English Nature (1997)	other	325949
Bellis perennis	Daisy		SY969924	SZ08/04/2 8	Poole Harbour (SMU 28)	Jun-84	McGibbon , Mr R.	English Nature (1997)	other	325946
Triglochin maritimum	Sea Arrowgras s	DN	SY969924	SZ08/04/2 8	Poole Harbour (SMU 28)	Jun-84	McGibbon , Mr R.	English Nature (1997)	other	325951
Juncus effusus	Soft Rush		SY969924	SZ08/04/2 8	Poole Harbour (SMU 28)	Jun-84	McGibbon , Mr R.	English Nature (1997)	other	325948
Festuca pratensis	Meadow Fescue		SY969924	SZ08/04/2 8	Poole Harbour (SMU 28)	Jun-84	McGibbon , Mr R.	English Nature (1997)	other	325940
Festuca arundinac ea	Tall Fescue		SY969924	SZ08/04/2 8	Poole Harbour (SMU 28)	Jun-84	McGibbon , Mr R.	English Nature (1997)	other	325942

REEDBED ASSESSMENT FORM

Site Lytchett Bay	Grid ref. (site/sample) SY975925	Owner/contact number Christopher Lees and Wimborne Estate
Recorder K Cook	Date: 1/11/00	

Size	<1ha	1-5ha	5-10ha	>10ha approx. 17 ha.
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Adjacent land use	Arable	Pasture +	Woodland +	Heath +	Reed +	Saltmarsh +	Carr	Other Marsh +	Other Harbour
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Shape	Linear	Block +	Potential for expansion	Yes	Amount or % gain
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% area of/ presence of	Poor reed 30	Good reed 70	Rush	Saltmarsh	Scrub	Pools/ditches +	banks	Other
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Water source	Fresh – river/stream	Fresh – groundwater	Saline – tidal +	Saline with fresh
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PH (fw)	Where fresh: 6.26	Salinity	Up to 20	Signs of	Deer	Cattle	Grazing
---------	----------------------	----------	----------	----------	------	--------	---------

Ditches	Not relevant	Not present	Not functioning	Functioning well +
Sluices	Not relevant	Not present	Not functioning +	Functioning well

Water flow	Not obvious	Through bed	Through ditches/stream +	Tidal +
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Water level above litter cm.	NA	No water
Leaf litter cm.	10	No significant litter

Scrub	0	0-10	10-50	More	Edge +	Scattered
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Species	Birch, oak, holly, sallow
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REED CONDITION

Height	<1.5	1.5-2.5 +	>2.5
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Density m ²	<100	100-200 +	>200
------------------------	------	--------------	------

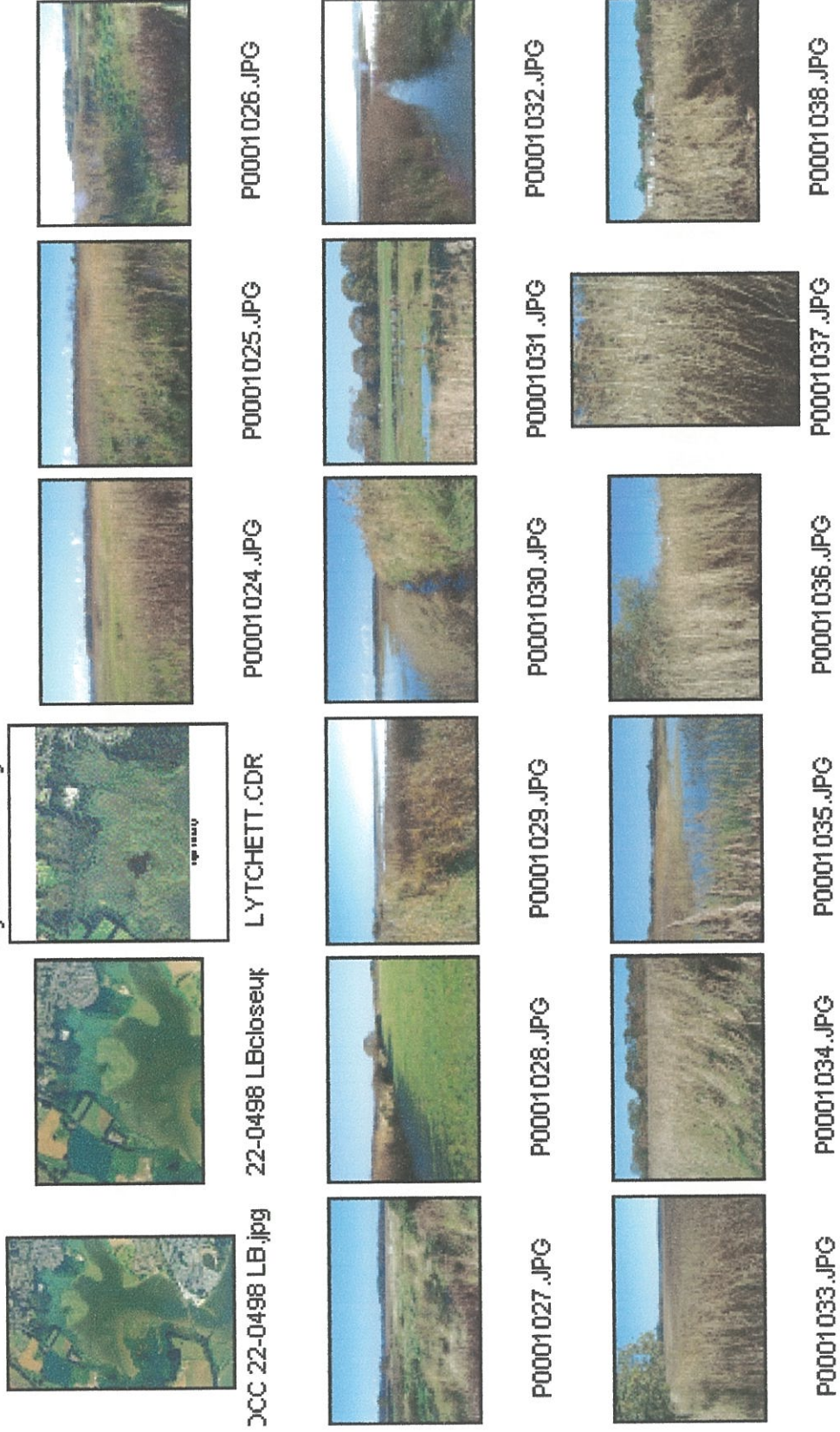
Flower spike %	Up to 90
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Stem diameter at butt	Up to 7mm
-----------------------	-----------

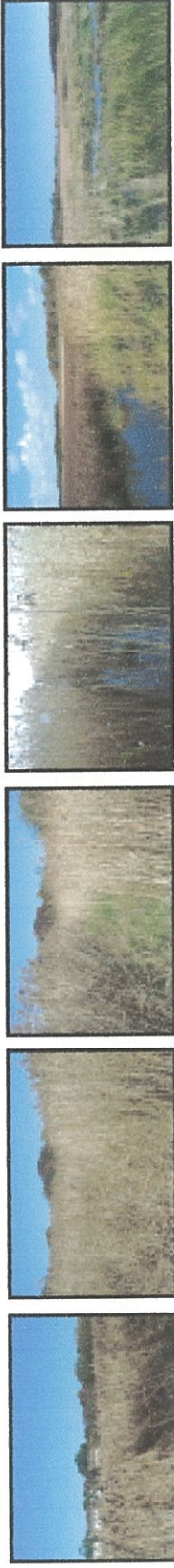
Straightness	All curved	75:25	50:50 +	25:75 +	All straight
--------------	------------	-------	------------	------------	--------------

Hardness (squeeze at butt end)	Hard +	Soft
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Lytchett Bay Reedbeds JPGs



Lytchett Bay Reedbeds JPGs



P0001039.JPG

P0001040.JPG

P0001041.JPG

P0001042.JPG

P0001043.JPG

P0001044.JPG



P0001045.JPG



P0001046.JPG



P0001047.JPG



P0001048.JPG



P0001049.JPG



P0001051.JPG



P0001052.JPG



P0001053.JPG



P0001054.JPG



P0001055.JPG



P0001056.JPG



P0001057.JPG

[2]

Lytchett Bay Reedbeds JPGs



P0001058.JPG



P0001059.JPG



P0001060.JPG



P0001061.JPG



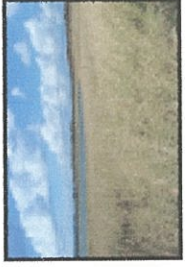
P0001062.JPG



P0001063.JPG



P0001064.JPG



P0001065.JPG

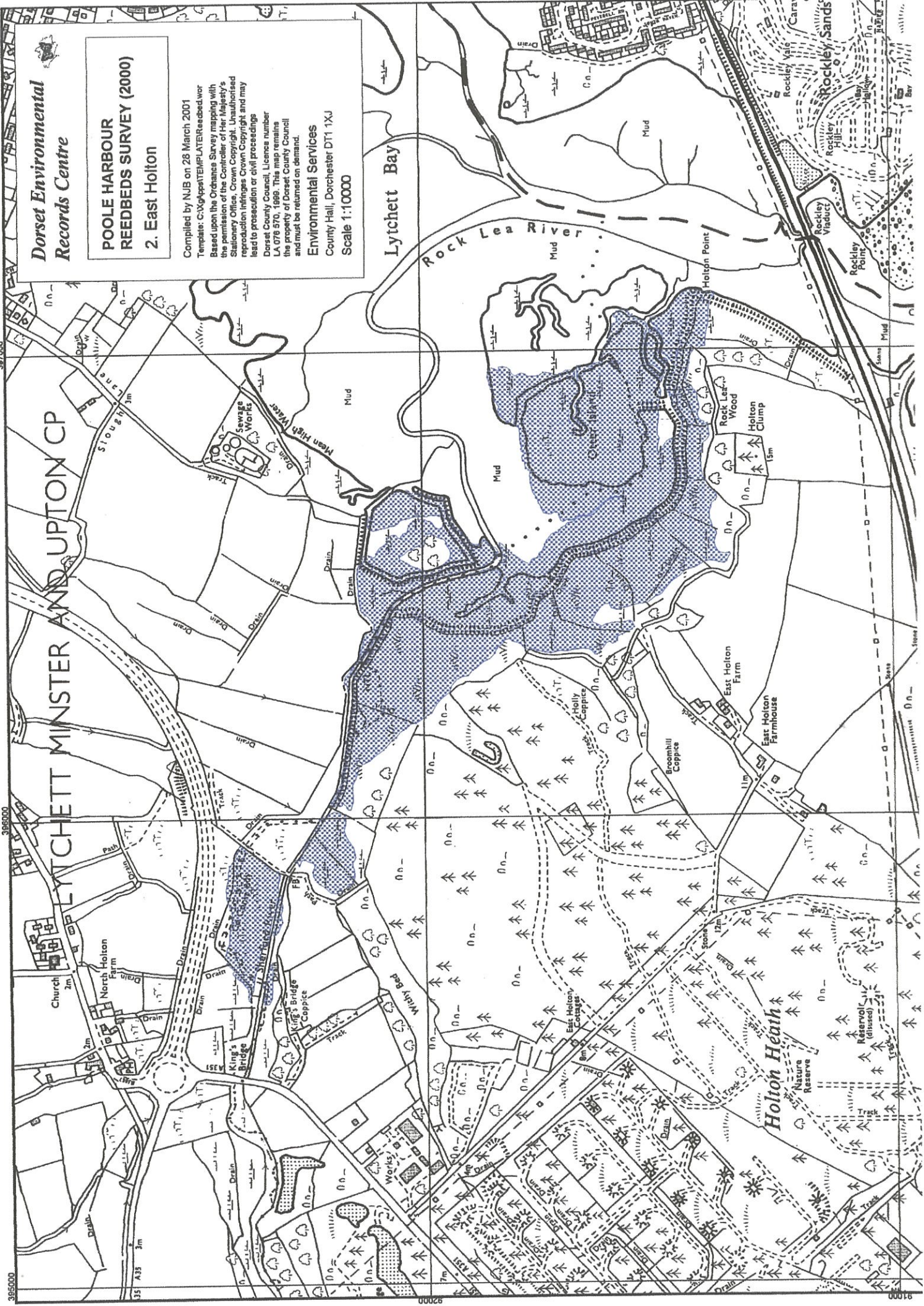


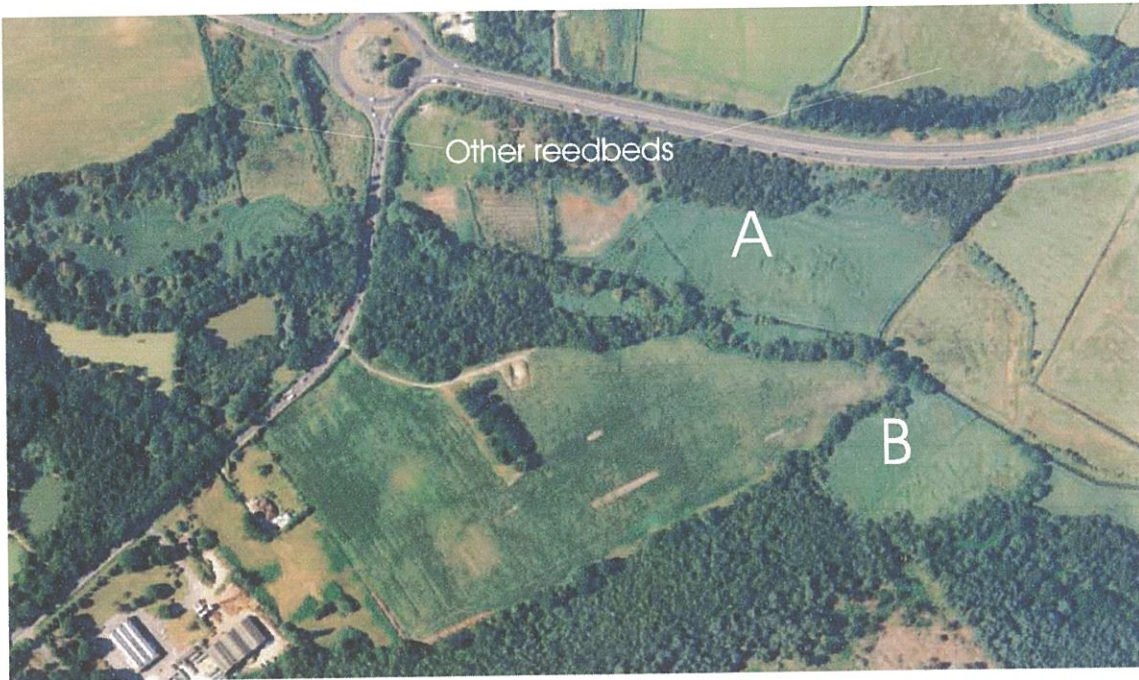
P0001066.JPG

**Dorset Environmental
Records Centre**

**POOLE HARBOUR
REEFBEDS SURVEY (2000)
2. East Holton**

Compiled by NJB on 28 March 2001
Template: C:\Xp\APP\PLATE\Readme.wor
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EAST HOLTON (HOLTON LEES) REEDBEDS

2. EAST HOLTON (Holton Lees) REEDBED

Grid ref.:SY965915
Survey date: 17/10/00

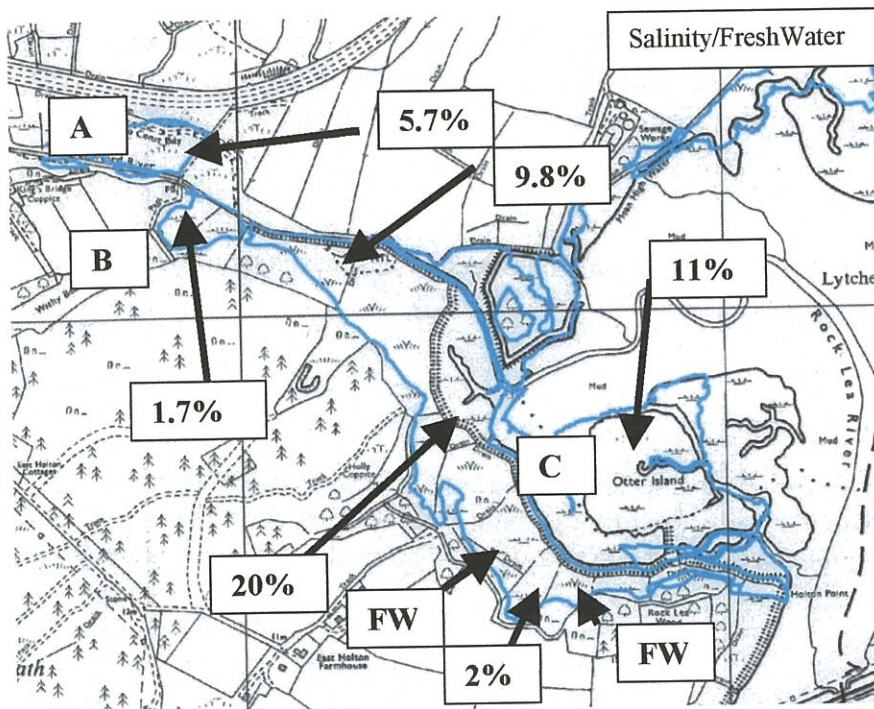
1. Summary

1.1 Table

Key features	Summary
Reedbed area (hectares)	35.26
Hydrology	Saline, tidal, some minor fw influence
Condition	Variable from good to poor
State	As a whole - declining
Adjacent to	Pasture, woodland, heathland, Harbour
Mgmt. Problems	Main- Sika deer grazing
Notable sp.	BT, WR, CW, RW, Sn
Current mgmt.	None
Expansion opportunities ?	Not within SPA – poss, upriver
Management opportunities ?	Yes – esp. along boundary with land

1.2 Quick Reference map

Salinity as % of sea water FW – fresh water



1.3 Key features

- Extensive continuous nature gives high potential for some key species
- Virtually all affected by tide and salinity (1.7% to 20% saline).
- Reed height and condition very variable . Tall (>1.5m) on higher ground, lowest (<.8m) adjacent to tidal creeks, and low areas. Blocks of tall high quality reed (to 2.5m) on Otter Island and alongside the Sherford river.

- Adjacent to recreational/ agricultural (pasture) fields, heathland and deciduous (including carr) and coniferous woodland
- Where reed is ungrazed it is generally straight (locally curved adjacent to carr), of average density (100-200 spikes m²) and producing higher than 30% flowering spikes.
- Considerable deer damage and access tracks. Probably more than half of the main reedbed so affected by deer that its value to reedbed specialists reduced to nothing.
- Bordered by the Harbour and Sherford river to the north and east and rising agricultural or heathland to the west. No opportunities for expansion adjacent to bed (see later)
- Some management activities highlighted in a plan 1997-2002 (under review)
- No water management practical or relevant.
- Notable species present.
- Recommendations (see end) include reduction in deer damage, the need for more monitoring and information about grazing and species, and some practical management such as management of adjacent habitats.

2. Site Description

The whole of the East Holton reedbed is within the Poole Harbour SPA, SSSI and Ramsar boundaries

2.1 General

For convenience it is possible to recognise three distinct sections:

1. A small reedbed, 'A' (2.34ha.) south of the A350 and north of the Sherford, not regularly inundated by tide but having some saline influence from the river. SY962961
2. Just south of A is reedbed 'B' (1.33 ha. plus .12 and .1 nearby) which is a continuation of the main reedbed 'C' separated from it by a low bank. SY959921.
3. The main reedbed 'C' (31.19 ha.) which occupies the intertidal zone in the northwestern section of Poole Harbour from the mouth of the River Sherford south eastwards. This is largely influenced by tides. This includes Otter Island which protrudes into the Harbour creating a bay on its western side.

2.2 Access

There are no public rights of way into either reedbed or surrounding land. Access is by prior arrangement.

Reedbed A

Grid ref. SY957923

Access: It is accessible via a bridge over the River Sherford and a small plank over the ditch at SY959923 (picture no. 579_). Access to the bridge is from the main Wareham road A351 or by walking to the northwestern corner of the Holton Lees reedbed and woodland. The reedbed is reasonably dry and walkable.

Reedbed B and C

Grid ref. SY959921 (B) and SY965915 (C)

Management and employment of the warden through an agreement with English Nature.

Access: By prior appointment from A351 take private road to Holton Lees, check in at office. Most suitable parking is near the stables from where there is easy access to the reedbed edge. There is a deep perimeter ditch running SE from SY965914 which is difficult to cross though makeshift bridges do exist. Most of the reedbed is walkable but the alder carr in the south has deep pools in it. Check tides before going out as it is possible to be trapped on Otter Island by an incoming tide.

3. Site History

The East Holton reedbeds would have been more extensive up river before drainage of fields west of Kings Bridge to Organford. Today there is a significant reedbed still immediately west of the A351 cut off from the lower beds by the road. Reedbed A has also been cut off from now outlying marshes and reedbed north of the modern A350. It is likely and probable that all the beds now constrained by hard boundaries once rose up to through rushy grazing marsh and eventually heath. Bournemouth University are currently researching into drainage around the Sherford River and the unimproved fields to the north of it and to the east of reedbed A.

The East Holton reedbeds are reputed to be the last ones commercially cut in the Harbour though it is understood the later cuttings (1980s) were patchy – possibly deer were already having an effect on the quality. In the survey results (5.3) there is a reference to the historical changes to the River Sherford which may have brought about the drying of the land of the main bed resulting in the creation of today's reedbed. This may have been to produce arable crops or reed as a commercial product. There are many ditches and banks across the bed visible in the aerial photographs of the site. A long sinuous bank which starts at the Rockley viaduct and continues through the bed and carries along the modern edge of the Sherford River is no doubt a sea defence. When the aerial photograph is compared to the Ordnance Survey map for the area there appears to be a considerable change in the shape of Otter Island and the bay created by it on its western boundary. This may be a continuing of the siltation and building of the reedbed started by the embanking in the past. There appears to be a significant amount of reed infill in the bay which can be seen when boundary of the bed is superimposed on to the GIS map.

There are several drainage ditches taking water from the higher land to the river and Harbour running roughly SW to NE. Some of these are clearly shown on the Ordnance survey map and some can be seen on the aerial photograph. A considerable amount of effort has been invested on the site in the past.

During the late 1990s ponies were brought onto the Holton Lees Estate to graze the heathland. As the land is unenclosed they made their way into the reedbed which became their preferred grazing area. It was recognised that they were causing considerable damage in the bed in areas mirrored by the sika deer damage and were removed during 1999 but they may have caused considerable long term damage by opening up coarser reed areas which the deer may have left.

4. Current Management

Recent management (late 2000) includes a 'wet fence' and a scrape in reedbed C. A deer stalker is being employed by the estate.

5. Survey Results

5.1 Deer

On entering the site about 15 mixed sika deer were noticed immediately including several pure white stags and hinds. Throughout the survey day sika deer were disturbed over the whole of reedbed C. Rutting stags were very evident and their stands were seen on the floor of the carr woodlands. A figure of 50 animals over the whole of the site would be a conservative estimate. Their effect on the reeds is evident. They concentrate on grazing in clearings creating zones of reeds where the plants are eaten at varying heights from 1 metre downwards. Initially this creates a rather thin bed but some areas are so grazed that the reeds are reduced to eaten plants scattered amongst grass or rushes or bare mud and the areas resemble degraded grazing marsh rather than reedbed. Thus taking the site as a whole the reeds vary from tall dense stands important for notable species to large areas of useless habitat perhaps harbouring snipe but of no value to bearded tits, reed warblers or reed invertebrates.

NB. It is not entirely clear why the Holton Lees reedbed should suffer so much from the deer – it may be a nuance of the habitat or lack of persecution. Similar reedbeds eg. Holton Heath, do not display this level of damage

5.2 Reedbed A

Aerial photograph: SY9592, DCC 22-0500. See *EH aerial A,B.jpg* on CD ROM
Site photos: 578-581

A is bounded by the road to the north and the river to the south. The river boundary is protected by a tall bank and appears to be above the water level at most states of the tides. The bed was fairly dry during the survey but a sample taken from a footprint showed 5.7% salinity and no freshwater plant species were found. There was only a small amount of deer access with just a few tracks and no signs of grazing. Reed condition was all very good – tall (<2.3m.), straight and dense with about 150 stems per m² and a good flowering rate (50%). There was no open water other than a ditch on its eastern edge (which had been recently cleared and was flowing well) and the river. The bed is surrounded by oak, sallows and birch and there were about 10 dead small sallows within the bed and a single small rushy clearing. On the southern side of the Sherford at this point is a mixed hedge of scrub and oak with patches of reed immediately alongside the river.

5.3 Reedbed B

Aerial photo: SY9592 (see above)
Site photos: 577,582

This is a small satellite of the main reedbed and like A does not appear to be much influenced by the tide and had a salinity level of 1.7%. There were small pools and ditches often associated with deer tracks and an open grassy area slightly maintained by grazing (photo 577). Deer grazing was not severe and limited to the one clearing. All the reeds were straight, dense for most of the bed and very tall near the river (>2.5m), up to 6mm wide and with about 90% good reed. The reedbed is separated from C by a lightly wooded bank.

5.4 Reedbed C

Aerial photo: SY9691, DCC 22-0499
Site photos: 544 – 576, 583
Deer damage: Holton deer damage.jpg

This is the main reedbed at Holton Lees covering from the Sherford and the Harbour edge in the north to a wooded boundary alongside woodland, (photo 583 northwestern section) scrub and fields to the south (photos 549 and 552).

The reedbed is extensive but very variable. There are considerable areas of damaged reedbed where the reeds are less than 1 metre high with broken tops, widely spaced with mud or grass in between. This is apparently caused by grazing deer but may also be linked to the history of the site. There is some evidence (pers.comm. Eileen Wilkest and Iain Hewitt Bmth. Univ.) that the River Sherford at some time in the past may have flowed from the NW to the SE across what is now a low area in the reedbed – the ditch and bank through the reedbed may have been part of the works to change its course or a relic of its old route. The Sherford is now canalised at the northern end. This change in route would have gained more land but would appear to have failed if it was for agriculture. However the deer damage (photos 554,556,557,559,562,566,570,571,572,573,574) is widespread but particularly is concentrated on low areas, often influenced by the tide more regularly than ungrazed areas and follows the old route of the river which may be coincidental. Deer damage may follow where the stems are weakened by regular inundation or where the land was partly reclaimed and the reeds never formed a strong bed. See enhanced aerial photo for approximate area of deer damage.

Apart from the deer damaged areas reed heights are variable but densities generally within the 100-200 range. Reeds are at their strongest on the north side of Otter Island (<2.5m.), along the southern edge of the Sherford River (2m.) and generally in the north-western section of the bed where there is noticeably less deer damage. The height is variable in the very south-eastern section and consistently 1.5-1.7 m. high in the eastern area of Otter Island adjacent to the saltmarsh alongside the creek which fills up on high tide (photo 556). Where reeds are up against the Harbour they form two types – very strong, tall and dense (photos 568,569) or, where they are easterly facing and alongside tidal creeks, shorter < .8m.

There were areas of freshwater in this reedbed (see diagram above) alongside the carr woodland where there must be a freshwater flow from the surrounding higher ground. This encouraged a few freshwater plants such as *Hydrocotyle vulgaris* into the reedbed (SY966914) but this was localised. Where the fresh met the saline there was a degradation noted in the quality of the reed – its density was high (>200 m²) but about 25% were curved and stem diameters were less than 4mm. Leaf litter (though less than 6cm) was deeper here – it is often non existent in tidal areas. This should mean more invertebrates in the litter with perhaps a slight advantage for water rails.

5.5 Photographic record held on CD ROM

Photo Number R0000	Reedbed	Grid Reference	Direction taken	Notes
545	C			Copy of aerial of site from EN warden
549		965915	NW	Edge of reedbed
550				Sika deer wallow in carr
551		965914	E	View of bed
552		96669128	W280	Edge of bed
553		966913		Carr and ditch
554		96629141	S	Light deer damage
556		96839145		Along tidal creek
557				"
558		96849164	N	Large open area on Otter Island
559		"		As above – deer damage
560				Typical reed Otter Island
561				Reed eaten by deer – Otter Island
562				Tidal inundation reduces quality of reed
564		96329184	E	Reedbed edge
565		"	NE	"
566		96419179		Badly damaged reed - nearly grazing marsh
567		96459177	NE	
568		96549177	N	Edge of RB with Harbour
569		96549177	E	Edge of RB looking east
570		96459187	N	Good quality reed on river side of ditch where deer apparently do not go. Poor reed in background grazed by deer
571				Poor reed with saline mud substrate
572		96439190		Reed dissected by deer tracks- better on higher ground (all tidal)
573		96409187	S	Looking down centre of RB
574		96359208	N	Looking towards Sherford – low broken reeds with grass and occasional pools
575		96229612	NW	Dense good quality reed in this upper area of C
576		96049219	SW	Access track along southern edge of Sherford (left)
577	B	95899219	SE	Open area
578	Near A	95899231	E	Field next to A and river which could be made wetter
579	A	95899231		Eastern edge of RB and ditch showing plank access
580	A			Reeds
581	A			SE corner of RB, Sherford on left, ditch on right
582	B			Grassy area where it leads into woodland
583				Woodland and heathland habitat adjacent to NW section of C

5.6 Other references

1997-2002 Management Plan

Preliminary Survey of the Reedbeds around Poole Harbour (Price and Pickess) 1993

Reedbed Survey 1996

6. Recommendations

- The 1997-2002 plans for water control etc. be reconsidered. Ideas of bunding and sealing landward sections of the reedbed C to make large freshwater areas could be discussed.
- The relationship between deer grazing and their selection of sites to graze should be examined.
- Deer grazing in the bed should be controlled (by culling).
- Options for future of heavily grazed sites should be discussed and a strategy developed to include possibility of scrape construction.
- An experimental 10x10 metre deer enclosure and an experimental cut reed area should be constructed for monitoring.
- To produce more diversity and more habitat for freshwater species (esp. some Odonata) there should be coppicing and pollarding of some of the adjacent carr and opening up of pools within the carr. Large salallows should be pollarded not coppiced (trunk dwelling moths).
- More scrub within the first few metres of the marsh edge is required – this can be partly achieved by creating habitat piles of brash. Protection from deer by fencing blocks should encourage the growth of scrub and thus encourage **Cettis warbler**. Encourage development of scrubby buffer strip as partly established in southern part of site.
- **Monitoring** : wildlife should be surveyed to produce a comprehensive species list. Numbers of pairs of breeding birds should be counted and the use of the bed by wintering bearded tits, rails, chats and snipe (etc.) be monitored. Both the reedbed and the carr should be investigated for insects.
- The Sherford river should be regularly checked for signs of otter
- Water voles were not found. It is possible that by managing the carr, clearing out and opening up the southern perimeter ditch and by encouraging more rough grassland as a buffer strip between the adjacent agricultural and recreational land and the reedbed suitable habitat could be created.
- There are no opportunities for expansion within the site but in future land west of the A351 or north of the Sherford could be examined for wetland restoration which could include reedbed establishment. However reedbed should not be created at the expense of unimproved grazing marsh

6. Species lists

6.1 Notable species seen during the survey

Bearded tit, snipe, water rail, greenshank

6.2 Species stated in 1997-2002 Management Plan

This plan contains lists of plants attributed to compartments that are unclear at the time of writing.

It also lists known **breeding birds**:

Water rail, **Cettis warbler** (not recorded since pre1997), sedge warbler, reed warbler, bearded tit

Old records for marsh harrier refer to nesting in the 1960s plus wintering birds

Reed bunting is listed but its breeding status is not

Otter is listed but regularity of sightings is not stated

6.3 Records from DERC

The following include records from DERC where the grid references fall within the general area of the reedbed.

Reedbed A and B

<i>Betula</i> sp.	a birch		SY956924	SZ08/04/2 9	Poole Harbour (SMU 29)	Jun-84	McGibbon , Mr R.	English Nature (1997)	reedb	326170
<i>Betula</i> sp.	a birch		SY958924	SZ08/04/2 9	Poole Harbour (SMU 29)	Jun-84	McGibbon , Mr R.	English Nature (1997)	reedb	326106
<i>Rumex acetosa</i>	Common Sorrel		SY956924	SZ08/04/2 9	Poole Harbour (SMU 29)	Jun-84	McGibbon , Mr R.	English Nature (1997)	reedb	326167
<i>Hypochaeris radicata</i>	Cat's-ear		SY956924	SZ08/04/2 9	Poole Harbour (SMU 29)	Jun-84	McGibbon , Mr R.	English Nature (1997)	reedb	326166
<i>Leucanthemum vulgare</i>	Oxeye Daisy	DN	SY956924	SZ08/04/2 9	Poole Harbour (SMU 29)	Jun-84	McGibbon , Mr R.	English Nature (1997)	reedb	326169
<i>Juncus effusus</i>	Soft Rush		SY956924	SZ08/04/2 9	Poole Harbour (SMU 29)	Jun-84	McGibbon , Mr R.	English Nature (1997)	reedb	326162
<i>Juncus effusus</i>	Soft Rush		SY958924	SZ08/04/2 9	Poole Harbour (SMU 29)	Jun-84	McGibbon , Mr R.	English Nature (1997)	reedb	326105
<i>Carex ovalis</i>	Oval Sedge		SY956924	SZ08/04/2 9	Poole Harbour (SMU 29)	Jun-84	McGibbon , Mr R.	English Nature (1997)	reedb	326165
<i>Carex riparia</i>	Great Pond- sedge		SY956924	SZ08/04/2 9	Poole Harbour (SMU 29)	Jun-84	McGibbon , Mr R.	English Nature (1997)	reedb	326163
<i>Festuca rubra</i>	Red Fescue		SY956924	SZ08/04/2 9	Poole Harbour (SMU 29)	Jun-84	McGibbon , Mr R.	English Nature (1997)	reedb	326161
<i>Holcus lanatus</i>	Yorkshire- fog		SY956924	SZ08/04/2 9	Poole Harbour (SMU 29)	Jun-84	McGibbon , Mr R.	English Nature (1997)	reedb	326168
<i>Phragmites australis</i>	Common Reed		SY956924	SZ08/04/2 9	Poole Harbour (SMU 29)	Jun-84	McGibbon , Mr R.	English Nature (1997)	reedb	326164
<i>Phragmites australis</i>	Common Reed		SY958924	SZ08/04/2 9	Poole Harbour (SMU 29)	Jun-84	McGibbon , Mr R.	English Nature (1997)	reedb	326107
<i>Quercus robur</i>	Peduncula te Oak		SY959922	SZ08/04/2 6	Poole Harbour (SMU 26)	Jun-84	McGibbon , Mr R.	English Nature (1997)	mud/saltm /reedb/oth er	326199
<i>Salix</i> sp.	a willow		SY959922	SZ08/04/2 6	Poole Harbour (SMU 26)	Jun-84	McGibbon , Mr R.	English Nature (1997)	mud/saltm /reedb/oth er	326198
<i>Agrostis stolonifera</i>	Creeping Bent		SY959922	SZ08/04/2 6	Poole Harbour (SMU 26)	Jun-84	McGibbon , Mr R.	English Nature (1997)	mud/saltm /reedb/oth er	326196
<i>Phragmites australis</i>	Common Reed		SY959922	SZ08/04/2 6	Poole Harbour (SMU 26)	Jun-84	McGibbon , Mr R.	English Nature (1997)	mud/saltm /reedb/oth er	326195
<i>Iris pseudacorus</i>	Yellow Iris		SY959922	SZ08/04/2 6	Poole Harbour (SMU 26)	Jun-84	McGibbon , Mr R.	English Nature (1997)	mud/saltm /reedb/oth er	326200
<i>Ranunculus repens</i>	Creeping Buttercup		SY959923	SZ08/04/2 2	Poole Harbour (SMU 22)	Jun-84	McGibbon , Mr R.	English Nature (1997)	mud/saltm /reedb/oth er	326096
<i>Betula</i> sp.	a birch		SY955924	SZ08/04/2 2	Poole Harbour (SMU 22)	Jun-84	McGibbon , Mr R.	English Nature (1997)	mud/saltm /reedb/oth er	326148
<i>Lychnis flos-cuculi</i>	Ragged Robin	DN	SY955924	SZ08/04/2 2	Poole Harbour (SMU 22)	Jun-84	McGibbon , Mr R.	English Nature (1997)	mud/saltm /reedb/oth er	326149
<i>Salix cinerea</i>	Grey Willow		SY955924	SZ08/04/2 2	Poole Harbour (SMU 22)	Jun-84	McGibbon , Mr R.	English Nature (1997)	mud/saltm /reedb/oth er	326147
<i>Cardamine pratensis</i>	Cuckoo- flower		SY955924	SZ08/04/2 2	Poole Harbour (SMU 22)	Jun-84	McGibbon , Mr R.	English Nature (1997)	mud/saltm /reedb/oth er	326160
<i>Potentilla palustris</i>	Marsh Cinquefoil	DN	SY955924	SZ08/04/2 2	Poole Harbour (SMU 22)	Jun-84	McGibbon , Mr R.	English Nature (1997)	mud/saltm /reedb/oth er	326154
<i>Lotus pedunculatus</i>	Large Bird's- foot-trefoil	DN	SY955924	SZ08/04/2 2	Poole Harbour (SMU 22)	Jun-84	McGibbon , Mr R.	English Nature (1997)	mud/saltm /reedb/oth er	326159
<i>Lotus pedunculatus</i>	Large Bird's- foot-trefoil	DN	SY959923	SZ08/04/2 2	Poole Harbour (SMU 22)	Jun-84	McGibbon , Mr R.	English Nature (1997)	mud/saltm /reedb/oth er	326102

<i>Vicia sativa</i>	Common Vetch		SY959923	SZ08/04/2 2	Poole Harbour (SMU 22)	Jun-84	McGibbon, Mr R.	English Nature (1997)	mud/saltm /reedb/other	326097
<i>Cytisus scoparius</i>	Broom		SY959923	SZ08/04/2 2	Poole Harbour (SMU 22)	Jun-84	McGibbon, Mr R.	English Nature (1997)	mud/saltm /reedb/other	326090
<i>Ulex europaeus</i>	Gorse		SY959923	SZ08/04/2 2	Poole Harbour (SMU 22)	Jun-84	McGibbon, Mr R.	English Nature (1997)	mud/saltm /reedb/other	326089
<i>Hydrocotyle vulgaris</i>	Marsh Pennywort	DN	SY955924	SZ08/04/2 2	Poole Harbour (SMU 22)	Jun-84	McGibbon, Mr R.	English Nature (1997)	mud/saltm /reedb/other	326151
<i>Hydrocotyle vulgaris</i>	Marsh Pennywort	DN	SY959923	SZ08/04/2 2	Poole Harbour (SMU 22)	Jun-84	McGibbon, Mr R.	English Nature (1997)	mud/saltm /reedb/other	326101
<i>Myosotis scorpioides</i>	Water Forget-me-not		SY955924	SZ08/04/2 2	Poole Harbour (SMU 22)	Jun-84	McGibbon, Mr R.	English Nature (1997)	mud/saltm /reedb/other	326157
<i>Mentha aquatica</i>	Water Mint		SY955924	SZ08/04/2 2	Poole Harbour (SMU 22)	Jun-84	McGibbon, Mr R.	English Nature (1997)	mud/saltm /reedb/other	326155
<i>Galium palustre</i>	Common Marsh-bedstraw		SY955924	SZ08/04/2 2	Poole Harbour (SMU 22)	Jun-84	McGibbon, Mr R.	English Nature (1997)	mud/saltm /reedb/other	326156
<i>Triglochin maritimum</i>	Sea Arrowgrasses	DN	SY959923	SZ08/04/2 2	Poole Harbour (SMU 22)	Jun-84	McGibbon, Mr R.	English Nature (1997)	mud/saltm /reedb/other	326098
<i>Juncus articulatus</i>	Jointed Rush		SY955924	SZ08/04/2 2	Poole Harbour (SMU 22)	Jun-84	McGibbon, Mr R.	English Nature (1997)	mud/saltm /reedb/other	326158
<i>Juncus maritimus</i>	Sea Rush		SY959923	SZ08/04/2 2	Poole Harbour (SMU 22)	Jun-84	McGibbon, Mr R.	English Nature (1997)	mud/saltm /reedb/other	326095
<i>Juncus effusus</i>	Soft Rush		SY959923	SZ08/04/2 2	Poole Harbour (SMU 22)	Jun-84	McGibbon, Mr R.	English Nature (1997)	mud/saltm /reedb/other	326094
<i>Carex disticha</i>	Brown Sedge	DN	SY955924	SZ08/04/2 2	Poole Harbour (SMU 22)	Jun-84	McGibbon, Mr R.	English Nature (1997)	mud/saltm /reedb/other	326152
<i>Carex ovalis</i>	Oval Sedge		SY959923	SZ08/04/2 2	Poole Harbour (SMU 22)	Jun-84	McGibbon, Mr R.	English Nature (1997)	mud/saltm /reedb/other	326100
<i>Carex acutiformis</i>	Lesser Pond-sedge		SY955924	SZ08/04/2 2	Poole Harbour (SMU 22)	Jun-84	McGibbon, Mr R.	English Nature (1997)	mud/saltm /reedb/other	326153
<i>Carex riparia</i>	Great Pond-sedge		SY955924	SZ08/04/2 2	Poole Harbour (SMU 22)	Jun-84	McGibbon, Mr R.	English Nature (1997)	mud/saltm /reedb/other	326145
<i>Carex nigra</i>	Common Sedge		SY959923	SZ08/04/2 2	Poole Harbour (SMU 22)	Jun-84	McGibbon, Mr R.	English Nature (1997)	mud/saltm /reedb/other	326099
<i>Alopecurus geniculatus</i>	Marsh Foxtail		SY955924	SZ08/04/2 2	Poole Harbour (SMU 22)	Jun-84	McGibbon, Mr R.	English Nature (1997)	mud/saltm /reedb/other	326150
<i>Phragmites australis</i>	Common Reed		SY955924	SZ08/04/2 2	Poole Harbour (SMU 22)	Jun-84	McGibbon, Mr R.	English Nature (1997)	mud/saltm /reedb/other	326146
<i>Phragmites australis</i>	Common Reed		SY959923	SZ08/04/2 2	Poole Harbour (SMU 22)	Jun-84	McGibbon, Mr R.	English Nature (1997)	mud/saltm /reedb/other	326088
<i>Phragmites australis</i>	Common Reed		SY959923	SZ08/04/2 2	Poole Harbour (SMU 22)	Jun-84	McGibbon, Mr R.	English Nature (1997)	mud/saltm /reedb/other	326093
<i>Conocephalus dorsalis</i>	Short-winged Conehead	DN	SY959923	SZ08/04/2 2	Poole Harbour (SMU 22)	Jun-84	McGibbon, Mr R.	English Nature (1997)	mud/saltm /reedb/other	326103
<i>Chorthippus albomarginatus</i>	Lesser Marsh Grasshopper	DN	SY959923	SZ08/04/2 2	Poole Harbour (SMU 22)	Jun-84	McGibbon, Mr R.	English Nature (1997)	mud/saltm /reedb/other	326104
<i>Saxicola torquata</i>	Stonechat	AMBER	SY959923	SZ08/04/2 2	Poole Harbour (SMU 22)	Jun-84	McGibbon, Mr R.	English Nature (1997)	mud/saltm /reedb/other	326091
<i>Acrocephalus scirpaceus</i>	Reed Warbler		SY959923	SZ08/04/2 2	Poole Harbour (SMU 22)	Jun-84	McGibbon, Mr R.	English Nature (1997)	mud/saltm /reedb/other	326092
<i>Sphagnum fimbriatum</i>	a bog moss		SY958921	SZ08/04/2 3	Poole Harbour (SMU 23)	Jun-84	McGibbon, Mr R.	English Nature (1997)	reedb/other	326204

Dryopteris dilatata	Broad Buckler-fern		SY958921	SZ08/04/23	Poole Harbour (SMU 23)	Jun-84	McGibbon, Mr R.	English Nature (1997)	reedb/other	326208
Blechnum spicant	Hard Fern		SY958921	SZ08/04/23	Poole Harbour (SMU 23)	Jun-84	McGibbon, Mr R.	English Nature (1997)	reedb/other	326209
Ranunculus repens	Creeping Buttercup		SY955923	SZ08/04/23	Poole Harbour (SMU 23)	Jun-84	McGibbon, Mr R.	English Nature (1997)	reedb/other	326133
Ranunculus sceleratus	Celery-leaved Buttercup		SY955923	SZ08/04/23	Poole Harbour (SMU 23)	Jun-84	McGibbon, Mr R.	English Nature (1997)	reedb/other	326124
Ranunculus flammula	Lesser Spearwort		SY955923	SZ08/04/23	Poole Harbour (SMU 23)	Jun-84	McGibbon, Mr R.	English Nature (1997)	reedb/other	326132
Thalictrum flavum	Common Meadow-rue	DN	SY955923	SZ08/04/23	Poole Harbour (SMU 23)	Jun-84	McGibbon, Mr R.	English Nature (1997)	reedb/other	326127
Thalictrum flavum	Common Meadow-rue	DN	SY955923	SZ08/04/23	Poole Harbour (SMU 23)	Jun-84	McGibbon, Mr R.	English Nature (1997)	reedb/other	326178
Urtica dioica	Common Nettle		SY955923	SZ08/04/23	Poole Harbour (SMU 23)	Jun-84	McGibbon, Mr R.	English Nature (1997)	reedb/other	326182
Myrica gale	Bog Myrtle	DN	SY958921	SZ08/04/23	Poole Harbour (SMU 23)	Jun-84	McGibbon, Mr R.	English Nature (1997)	reedb/other	326205
Quercus robur	Pedunculate Oak		SY958923	SZ08/04/23	Poole Harbour (SMU 23)	Jun-84	McGibbon, Mr R.	English Nature (1997)	reedb/other	326194
Betula sp.	a birch		SY958921	SZ08/04/23	Poole Harbour (SMU 23)	Jun-84	McGibbon, Mr R.	English Nature (1997)	reedb/other	326201
Betula sp.	a birch		SY958923	SZ08/04/23	Poole Harbour (SMU 23)	Jun-84	McGibbon, Mr R.	English Nature (1997)	reedb/other	326192
Lychnis flos-cuculi	Ragged Robin	DN	SY955923	SZ08/04/23	Poole Harbour (SMU 23)	Jun-84	McGibbon, Mr R.	English Nature (1997)	reedb/other	326131
Hypericum tetrapetrum	Square-stalked St. John's-wort		SY955923	SZ08/04/23	Poole Harbour (SMU 23)	Jun-84	McGibbon, Mr R.	English Nature (1997)	reedb/other	326138
Salix sp.	a willow		SY958923	SZ08/04/23	Poole Harbour (SMU 23)	Jun-84	McGibbon, Mr R.	English Nature (1997)	reedb/other	326193
Salix alba	White Willow		SY955923	SZ08/04/23	Poole Harbour (SMU 23)	Jun-84	McGibbon, Mr R.	English Nature (1997)	reedb/other	326171
Salix cinerea	Grey Willow		SY955923	SZ08/04/23	Poole Harbour (SMU 23)	Jun-84	McGibbon, Mr R.	English Nature (1997)	reedb/other	326142
Salix cinerea	Grey Willow		SY955923	SZ08/04/23	Poole Harbour (SMU 23)	Jun-84	McGibbon, Mr R.	English Nature (1997)	reedb/other	326173
Salix cinerea	Grey Willow		SY958921	SZ08/04/23	Poole Harbour (SMU 23)	Jun-84	McGibbon, Mr R.	English Nature (1997)	reedb/other	326202
Salix cinerea	Grey Willow		SY958923	SZ08/04/23	Poole Harbour (SMU 23)	Jun-84	McGibbon, Mr R.	English Nature (1997)	reedb/other	326190
Geum urbanum	Herb Bennet		SY955923	SZ08/04/23	Poole Harbour (SMU 23)	Jun-84	McGibbon, Mr R.	English Nature (1997)	reedb/other	326183
Prunus spinosa	Blackthorn		SY955923	SZ08/04/23	Poole Harbour (SMU 23)	Jun-84	McGibbon, Mr R.	English Nature (1997)	reedb/other	326177
Ulex europaeus	Gorse		SY958923	SZ08/04/23	Poole Harbour (SMU 23)	Jun-84	McGibbon, Mr R.	English Nature (1997)	reedb/other	326191
Oenanthe crocata	Hemlock Water-dropwort		SY955923	SZ08/04/23	Poole Harbour (SMU 23)	Jun-84	McGibbon, Mr R.	English Nature (1997)	reedb/other	326128
Oenanthe crocata	Hemlock Water-dropwort		SY955923	SZ08/04/23	Poole Harbour (SMU 23)	Jun-84	McGibbon, Mr R.	English Nature (1997)	reedb/other	326135
Calystegia sepium	Hedge Bindweed		SY955923	SZ08/04/23	Poole Harbour (SMU 23)	Jun-84	McGibbon, Mr R.	English Nature (1997)	reedb/other	326140
Ajuga reptans	Bugle		SY955923	SZ08/04/23	Poole Harbour	Jun-84	McGibbon, Mr R.	English Nature	reedb/other	326185

<i>Lycopus europaeus</i>	Gipsywort		SY955923	SZ08/04/2 3	(SMU 23) Poole Harbour (SMU 23)	Jun-84	McGibbon, Mr R.	English Nature (1997)	reedb/other	326136
<i>Galium aparine</i>	Cleavers		SY955923	SZ08/04/2 3	Poole Harbour (SMU 23)	Jun-84	McGibbon, Mr R.	English Nature (1997)	reedb/other	326181
<i>Viburnum opulus</i>	Guelderrose		SY955923	SZ08/04/2 3	Poole Harbour (SMU 23)	Jun-84	McGibbon, Mr R.	English Nature (1997)	reedb/other	326141
<i>Viburnum opulus</i>	Guelderrose		SY955923	SZ08/04/2 3	Poole Harbour (SMU 23)	Jun-84	McGibbon, Mr R.	English Nature (1997)	reedb/other	326172
<i>Pulicaria dysenterica</i>	Common Fleabane		SY955923	SZ08/04/2 3	Poole Harbour (SMU 23)	Jun-84	McGibbon, Mr R.	English Nature (1997)	reedb/other	326139
<i>Carex paniculata</i>	Greater Tussock-sedge	DN	SY958921	SZ08/04/2 3	Poole Harbour (SMU 23)	Jun-84	McGibbon, Mr R.	English Nature (1997)	reedb/other	326203
<i>Carex remota</i>	Remote Sedge		SY955923	SZ08/04/2 3	Poole Harbour (SMU 23)	Jun-84	McGibbon, Mr R.	English Nature (1997)	reedb/other	326180
<i>Carex ovalis</i>	Oval Sedge		SY955923	SZ08/04/2 3	Poole Harbour (SMU 23)	Jun-84	McGibbon, Mr R.	English Nature (1997)	reedb/other	326137
<i>Carex acutiformis</i>	Lesser Pond-sedge		SY955923	SZ08/04/2 3	Poole Harbour (SMU 23)	Jun-84	McGibbon, Mr R.	English Nature (1997)	reedb/other	326176
<i>Carex acutiformis</i>	Lesser Pond-sedge		SY955923	SZ08/04/2 3	Poole Harbour (SMU 23)	Jun-84	McGibbon, Mr R.	English Nature (1997)	reedb/other	326179
<i>Carex riparia</i>	Great Pond-sedge		SY955923	SZ08/04/2 3	Poole Harbour (SMU 23)	Jun-84	McGibbon, Mr R.	English Nature (1997)	reedb/other	326130
<i>Carex riparia</i>	Great Pond-sedge		SY955923	SZ08/04/2 3	Poole Harbour (SMU 23)	Jun-84	McGibbon, Mr R.	English Nature (1997)	reedb/other	326175
<i>Poa pratensis</i>	Smooth Meadow-grass		SY955923	SZ08/04/2 3	Poole Harbour (SMU 23)	Jun-84	McGibbon, Mr R.	English Nature (1997)	reedb/other	326126
<i>Glyceria maxima</i>	Reed Sweet-grass		SY955923	SZ08/04/2 3	Poole Harbour (SMU 23)	Jun-84	McGibbon, Mr R.	English Nature (1997)	reedb/other	326134
<i>Agrostis stolonifera</i>	Creeping Bent		SY955923	SZ08/04/2 3	Poole Harbour (SMU 23)	Jun-84	McGibbon, Mr R.	English Nature (1997)	reedb/other	326123
<i>Brachypodium sylvaticum</i>	False-brome		SY955923	SZ08/04/2 3	Poole Harbour (SMU 23)	Jun-84	McGibbon, Mr R.	English Nature (1997)	reedb/other	326184
<i>Molinia caerulea</i>	Purple Moor-grass		SY958921	SZ08/04/2 3	Poole Harbour (SMU 23)	Jun-84	McGibbon, Mr R.	English Nature (1997)	reedb/other	326206
<i>Phragmites australis</i>	Common Reed		SY955923	SZ08/04/2 3	Poole Harbour (SMU 23)	Jun-84	McGibbon, Mr R.	English Nature (1997)	reedb/other	326125
<i>Phragmites australis</i>	Common Reed		SY955923	SZ08/04/2 3	Poole Harbour (SMU 23)	Jun-84	McGibbon, Mr R.	English Nature (1997)	reedb/other	326174
<i>Phragmites australis</i>	Common Reed		SY958921	SZ08/04/2 3	Poole Harbour (SMU 23)	Jun-84	McGibbon, Mr R.	English Nature (1997)	reedb/other	326207
<i>Phragmites australis</i>	Common Reed		SY958923	SZ08/04/2 3	Poole Harbour (SMU 23)	Jun-84	McGibbon, Mr R.	English Nature (1997)	reedb/other	326189
<i>Iris pseudacorus</i>	Yellow Iris		SY955923	SZ08/04/2 3	Poole Harbour (SMU 23)	Jun-84	McGibbon, Mr R.	English Nature (1997)	reedb/other	326129
<i>Quercus robur</i>	Pedunculate Oak		SY959922	SZ08/04/2 6	Poole Harbour (SMU 26)	Jun-84	McGibbon, Mr R.	English Nature (1997)	mud/saltm /reedb/other	326199
<i>Salix sp.</i>	a willow		SY959922	SZ08/04/2 6	Poole Harbour (SMU 26)	Jun-84	McGibbon, Mr R.	English Nature (1997)	mud/saltm /reedb/other	326198
<i>Agrostis stolonifera</i>	Creeping Bent		SY959922	SZ08/04/2 6	Poole Harbour (SMU 26)	Jun-84	McGibbon, Mr R.	English Nature (1997)	mud/saltm /reedb/other	326196
<i>Phragmites australis</i>	Common Reed		SY959922	SZ08/04/2 6	Poole Harbour (SMU 26)	Jun-84	McGibbon, Mr R.	English Nature (1997)	mud/saltm /reedb/other	326195
<i>Iris pseudacorus</i>	Yellow Iris		SY959922	SZ08/04/2 6	Poole Harbour	Jun-84	McGibbon, Mr R.	English Nature	mud/saltm /reedb/other	326200

us Betula sp.	a birch		SY956924	SZ08/04/2 9	(SMU 26) Poole Harbour	Jun-84	McGibbon , Mr R.	(1997) English Nature	reedb	326170
Betula sp.	a birch		SY958924	SZ08/04/2 9	(SMU 29) Poole Harbour	Jun-84	McGibbon , Mr R.	(1997) English Nature	reedb	326106
Rumex acetosa	Common Sorrel		SY956924	SZ08/04/2 9	(SMU 29) Poole Harbour	Jun-84	McGibbon , Mr R.	(1997) English Nature	reedb	326167
Hypochaeris radicata	Cat's-ear		SY956924	SZ08/04/2 9	(SMU 29) Poole Harbour	Jun-84	McGibbon , Mr R.	(1997) English Nature	reedb	326166
Leucanthemum vulgare	Oxeye Daisy	DN	SY956924	SZ08/04/2 9	(SMU 29) Poole Harbour	Jun-84	McGibbon , Mr R.	(1997) English Nature	reedb	326169
Juncus effusus	Soft Rush		SY956924	SZ08/04/2 9	(SMU 29) Poole Harbour	Jun-84	McGibbon , Mr R.	(1997) English Nature	reedb	326162
Juncus effusus	Soft Rush		SY958924	SZ08/04/2 9	(SMU 29) Poole Harbour	Jun-84	McGibbon , Mr R.	(1997) English Nature	reedb	326105
Carex ovalis	Oval Sedge		SY956924	SZ08/04/2 9	(SMU 29) Poole Harbour	Jun-84	McGibbon , Mr R.	(1997) English Nature	reedb	326165
Carex riparia	Great Pond- sedge		SY956924	SZ08/04/2 9	(SMU 29) Poole Harbour	Jun-84	McGibbon , Mr R.	(1997) English Nature	reedb	326163
Festuca rubra sens.str.	Red Fescue		SY956924	SZ08/04/2 9	(SMU 29) Poole Harbour	Jun-84	McGibbon , Mr R.	(1997) English Nature	reedb	326161
Holcus lanatus	Yorkshire- fog		SY956924	SZ08/04/2 9	(SMU 29) Poole Harbour	Jun-84	McGibbon , Mr R.	(1997) English Nature	reedb	326168
Phragmites australis	Common Reed		SY956924	SZ08/04/2 9	(SMU 29) Poole Harbour	Jun-84	McGibbon , Mr R.	(1997) English Nature	reedb	326164
Phragmites australis	Common Reed		SY958924	SZ08/04/2 9	(SMU 29) Poole Harbour	Jun-84	McGibbon , Mr R.	(1997) English Nature	reedb	326107
Pyrrosoma nymphula	Large Red Damselfly		SY955923	SZ08/04/2 3	Poole Harbour (SMU 23)	Jun-84	McGibbon , Mr R.	English Nature (1997)	reedb/other	326188
Cettia cetti	Cetti's Warbler	AMBER	SY955923	SZ08/04/2 3	Poole Harbour (SMU 23)	-1983	Alexander , Mr I.	English Nature (1997)	reedb/other	326532
Cettia cetti	Cetti's Warbler	AMBER	SY955923	SZ08/04/2 3	Poole Harbour (SMU 23)	Jun-84	McGibbon , Mr R.	English Nature (1997)	reedb/other	326143
Acrocephalus scirpaceus	Reed Warbler		SY955923	SZ08/04/2 3	Poole Harbour (SMU 23)	Jun-84	McGibbon , Mr R.	English Nature (1997)	reedb/other	326144
Acrocephalus scirpaceus	Reed Warbler		SY955923	SZ08/04/2 3	Poole Harbour (SMU 23)	Jun-84	McGibbon , Mr R.	English Nature (1997)	reedb/other	326186
Parus palustris	Marsh Tit	AMBER	SY955923	SZ08/04/2 3	Poole Harbour (SMU 23)	Jun-84	McGibbon , Mr R.	English Nature (1997)	reedb/other	326187

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Sphagnum fimbriatum	a bog moss		SY962916	SZ08/04/2 5	Poole Harbour (SMU 25)	Jun-84	McGibbon , Mr R.	English Nature (1997)	reedb/other	326253
Dicranum scoparium	a moss		SY961921	SZ08/04/2 6	Poole Harbour (SMU 26)	Jun-84	McGibbon , Mr R.	English Nature (1997)	mud/saltm /reedb/other	326221
Mnium hornum	a moss		SY961921	SZ08/04/2 6	Poole Harbour (SMU 26)	Jun-84	McGibbon , Mr R.	English Nature (1997)	mud/saltm /reedb/other	326220
Pteridium aquilinum	Bracken		SY962916	SZ08/04/2 5	Poole Harbour (SMU 25)	Jun-84	McGibbon , Mr R.	English Nature (1997)	reedb/other	326245
Pteridium	Bracken		SY961921	SZ08/04/2	Poole	Jun-84	McGibbon	English	mud/saltm	326215

aquilinum			6	Harbour (SMU 26)		Mr R.	Nature (1997)	/reedb/other		
Pteridium aquilinum	Bracken		SY963918	SZ08/04/26	Poole Harbour (SMU 26)	Jun-84	McGibbon, Mr R.	English Nature (1997)	mud/saltm /reedb/other	326238
Ceratocarpus claviculata	Climbing Corydalis	DN	SY962916	SZ08/04/25	Poole Harbour (SMU 25)	Jun-84	McGibbon, Mr R.	English Nature (1997)	reedb/other	326248
Teucrium scorodonia	Wood Sage		SY962916	SZ08/04/25	Poole Harbour (SMU 25)	Jun-84	McGibbon, Mr R.	English Nature (1997)	reedb/other	326247
Lonicera periclymenum	Honeysuckle		SY962916	SZ08/04/25	Poole Harbour (SMU 25)	Jun-84	McGibbon, Mr R.	English Nature (1997)	reedb/other	326246
Spergularia media	Greater Sea-spurrey	DN	SY970913	SZ08/04/26	Poole Harbour (SMU 26)	Jun-84	McGibbon, Mr R.	English Nature (1997)	mud/saltm /reedb/other	326286
Spergularia marina	Lesser Sea-spurrey	DN	SY970913	SZ08/04/26	Poole Harbour (SMU 26)	Jun-84	McGibbon, Mr R.	English Nature (1997)	mud/saltm /reedb/other	326285
Armeria maritima	Thrift		SY970913	SZ08/04/26	Poole Harbour (SMU 26)	Jun-84	McGibbon, Mr R.	English Nature (1997)	mud/saltm /reedb/other	326282
Hyacinthoides non-scripta	Bluebell	BAP3	SY963918	SZ08/04/26	Poole Harbour (SMU 26)	Jun-84	McGibbon, Mr R.	English Nature (1997)	mud/saltm /reedb/other	326239
Ceratocarpus claviculata	Climbing Corydalis	DN	SY963918	SZ08/04/26	Poole Harbour (SMU 26)	Jun-84	McGibbon, Mr R.	English Nature (1997)	mud/saltm /reedb/other	326241
Myrica gale	Bog Myrtle	DN	SY961921	SZ08/04/26	Poole Harbour (SMU 26)	Jun-84	McGibbon, Mr R.	English Nature (1997)	mud/saltm /reedb/other	326212
Suaeda vera	Shrubby Seablite	Nationally Scarce	SY971914	SZ08/04/27	Poole Harbour (SMU 27)	Jun-84	McGibbon, Mr R.	English Nature (1997)	mud/saltm /reedb/other	326310
Juncus subnodulosus	Blunt-flowered Rush	DN	SY961921	SZ08/04/26	Poole Harbour (SMU 26)	Jun-84	McGibbon, Mr R.	English Nature (1997)	mud/saltm /reedb/other	326222
Juncus acutiflorus	Sharp-flowered Rush		SY963918	SZ08/04/26	Poole Harbour (SMU 26)	Jun-84	McGibbon, Mr R.	English Nature (1997)	mud/saltm /reedb/other	326242
Bolboschoenus maritimus	Sea Club-rush	DN	SY959922	SZ08/04/26	Poole Harbour (SMU 26)	Jun-84	McGibbon, Mr R.	English Nature (1997)	mud/saltm /reedb/other	326197
Carex nigra	Common Sedge		SY961921	SZ08/04/26	Poole Harbour (SMU 26)	Jun-84	McGibbon, Mr R.	English Nature (1997)	mud/saltm /reedb/other	326224
Carex paniculata	Greater Tussock-sedge	DN	SY962916	SZ08/04/25	Poole Harbour (SMU 25)	Jun-84	McGibbon, Mr R.	English Nature (1997)	reedb/other	326252
Holcus mollis	Creeping Soft-grass		SY962916	SZ08/04/25	Poole Harbour (SMU 25)	Jun-84	McGibbon, Mr R.	English Nature (1997)	reedb/other	326251
Holcus lanatus	Yorkshire-fog		SY963918	SZ08/04/26	Poole Harbour (SMU 26)	Jun-84	McGibbon, Mr R.	English Nature (1997)	mud/saltm /reedb/other	326240
Molinia caerulea	Purple Moor-grass		SY961921	SZ08/04/26	Poole Harbour (SMU 26)	Jun-84	McGibbon, Mr R.	English Nature (1997)	mud/saltm /reedb/other	326210
Phragmites australis	Common Reed		SY961921	SZ08/04/26	Poole Harbour (SMU 26)	Jun-84	McGibbon, Mr R.	English Nature (1997)	mud/saltm /reedb/other	326225
Phragmites australis	Common Reed		SY961921	SZ08/04/26	Poole Harbour (SMU 26)	Jun-84	McGibbon, Mr R.	English Nature (1997)	mud/saltm /reedb/other	326225
Quercus sp.	an oak		SY961921	SZ08/04/26	Poole Harbour (SMU 26)	Jun-84	McGibbon, Mr R.	English Nature (1997)	mud/saltm /reedb/other	326219
Betula sp.	a birch		SY961921	SZ08/04/26	Poole Harbour (SMU 26)	Jun-84	McGibbon, Mr R.	English Nature (1997)	mud/saltm /reedb/other	326217
Quercus robur	Pedunculate Oak		SY962916	SZ08/04/25	Poole Harbour (SMU 25)	Jun-84	McGibbon, Mr R.	English Nature (1997)	reedb/other	326244
Betula sp.	a birch		SY962916	SZ08/04/25	Poole Harbour (SMU 25)	Jun-84	McGibbon, Mr R.	English Nature (1997)	reedb/other	326243
Alnus glutinosa	Alder		SY962916	SZ08/04/25	Poole Harbour	Jun-84	McGibbon, Mr R.	English Nature	reedb/other	326250

Salix sp.	a willow			SY964915	SZ08/04/26	Poole Harbour (SMU 25)	Jun-84	McGibbon, Mr R.	English Nature (1997)	mud/saltm /reedb/other	326262
Salix sp.	a willow			SY964916	SZ08/04/26	Poole Harbour (SMU 26)	Jun-84	McGibbon, Mr R.	English Nature (1997)	mud/saltm /reedb/other	326254
Salix sp.	a willow			SY962916	SZ08/04/25	Poole Harbour (SMU 25)	Jun-84	McGibbon, Mr R.	English Nature (1997)	reedb/other	326249
Pinus sp.	a pine			SY961921	SZ08/04/26	Poole Harbour (SMU 26)	Jun-84	McGibbon, Mr R.	English Nature (1997)	mud/saltm /reedb/other	326218
Pinus sylvestris	Scots Pine	SY961921	SZ08/04/26			Poole Harbour (SMU 26)	Jun-84	English Nature (1997)	field record	mud/saltm /reedb/other	
Chorthippus albomarginatus	Lesser Marsh Grasshopper		DN	SY970913	SZ08/04/26	Poole Harbour (SMU 26)	Jun-84	McGibbon, Mr R.	English Nature (1997)	mud/saltm /reedb/other	326288
Rallus aquaticus	Water Rail	BAP3	AMBER	SY964916	SZ08/04/26	Poole Harbour (SMU 26)	Jun-84	McGibbon, Mr R.	English Nature (1997)	mud/saltm /reedb/other	326255
Acrocephalus scirpaceus	Reed Warbler	BAP3		SY964915	SZ08/04/26	Poole Harbour (SMU 26)	Jun-84	McGibbon, Mr R.	English Nature (1997)	mud/saltm /reedb/other	326261

REEDBED ASSESSMENT FORM

Site East Holton Taken from 4 samples Recorder K Cook	Grid ref. (site/sample) 96639142	Owner/contact number Holton Lees/Howard Avery
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Size	<1ha	1-5ha	5-10ha	>10ha 35.85
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Adjacent land use	Arable	Pasture X	Woodland X	Heath X	Reed X	Saltmarsh X	Carr X	Other Marsh	Other
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Shape	Linear	Block X	Potential for expansion	Not within site	Amount of % gain
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% area of/ presence of	Poor reed 50	Good reed 30	Rush	Saltmarsh	Scrub	Pools/ditches	banks	Other 20 (degraded)
------------------------	-----------------	-----------------	------	-----------	-------	---------------	-------	---------------------------

Water source	Fresh – river/stream	Fresh – groundwater X	Saline – tidal X	Saline with fresh X
--------------	----------------------	--------------------------	---------------------	------------------------

PH (fw)	Salinity	1.7-20 %	Signs of	Deer X	Cattle	Grazing X
---------	----------	----------	----------	-----------	--------	--------------

Ditches	Not relevant X	Not present	Not functioning	Functioning well X	Tidal creeks
Sluices	Not relevant X	Not present	Not functioning	Functioning well	

Water flow	Not obvious	Through bed	Through ditches/stream	Tidal X
------------	-------------	-------------	------------------------	------------

Water level above litter cm.	Tidal –N/A	No water
Leaf litter cm.	5cm.	No significant litter

Scrub	0	0-10	10-50	More	Edge Carr woodland	Scattered
Species	Oak, sallow, birch					

REED CONDITION

Height	<1.5 Some areas	1.5-2.5 X	>2.5 Some areas
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Density m ²	<100	100-200 X	>200
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Flower spike %	30-80 generally 50
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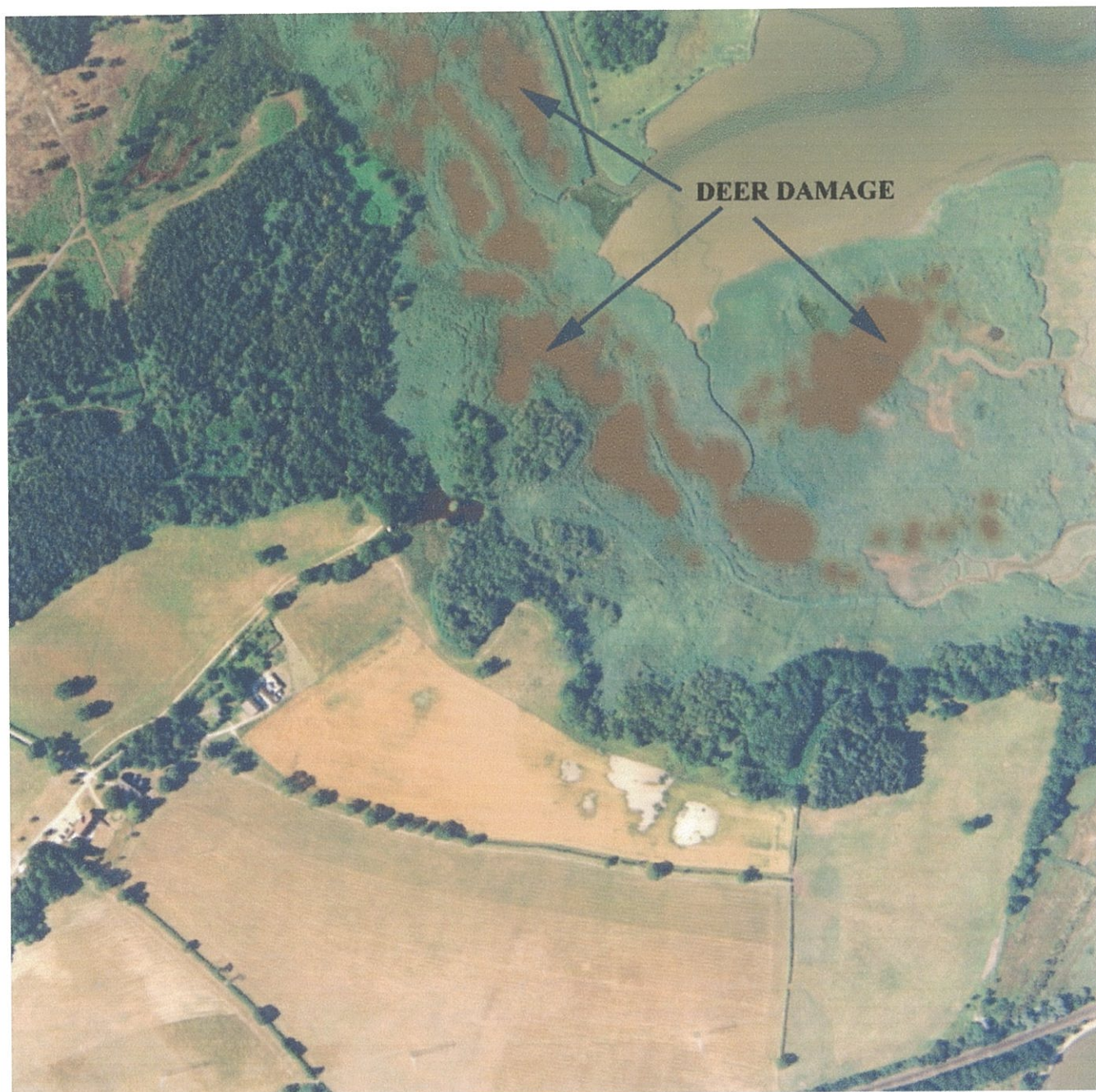
Stem diameter at butt	(3) 4 - 6
-----------------------	-----------

Straightness	All curved	75:25	50:50	25:75 Some x	All straight X
--------------	------------	-------	-------	-----------------	-------------------

Hardness (squeeze at butt end)	Hard X	Soft
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MOTH RECORDS FOR HOLTON LEES from Peter Davey

Date	Species		Recorder
11/7/96	Obscure wainscot	Mythimna obsoleta	Peter Davey, Phil Sterling

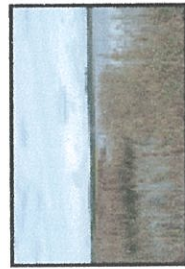


Main areas of deer damage(brown) within
the East Holton (Holton Lees) Reedbed
October 2000

East Holton (Holton Lees) Reedbeds JPGs



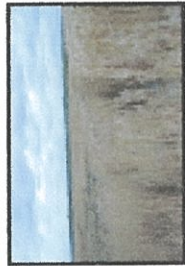
East Holton (Holton Lees) Reedbeds JPGs



P0000568.JPG



P0000569.JPG



P0000570.JPG



P0000571.JPG



P0000572.JPG



P0000573.JPG



P0000574.JPG



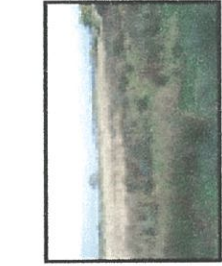
P0000575.JPG



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P0000577.JPG



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P0000579.JPG



P0000580.JPG



P0000581.JPG



P0000582.JPG



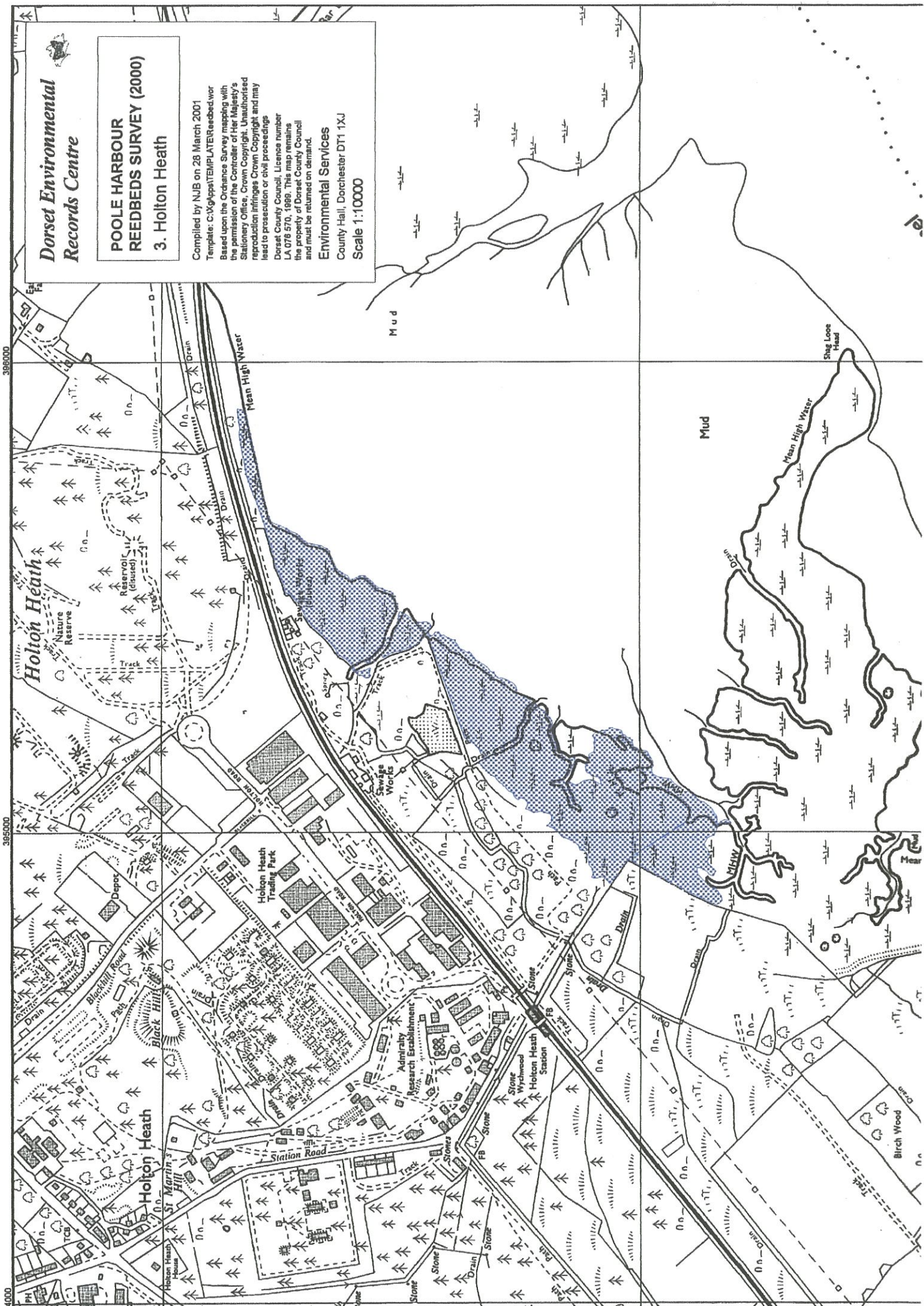
P0000583.JPG

[2]

**Dorset Environmental
Records Centre**

**POOLE HARBOUR
REEDBEDS SURVEY (2000)
3. Holton Heath**

Compiled by NJB on 28 March 2001
Template: C:\Xpp\TEMPLATE\REEDBEDS.WOR
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County Hall, Dorchester DT1 1XJ
Scale 1:10000





3.HOLTON HEATH REEDBED
(with Shag Looe Spit below)

3. HOLTON HEATH REEDBED

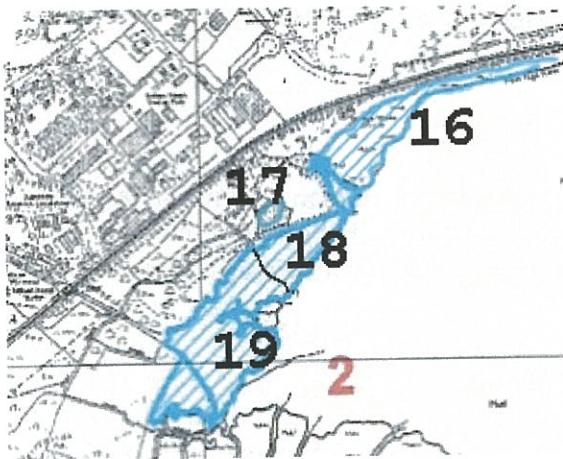
Grid ref. SY 950901
Survey Date: 26/10/00

1. Summary

1.1 Key features

Key features	Summary
Reedbed area (ha.)	17.31
Hydrology	Saline, tidal, some minor fw influence
Condition	Good
State	Stable
Adjacent to	Saltmarsh, woodland, grazing, heathland, Harbour
Mgmt. Problems	Minor grazing by sika, some scrub 16, pollution of incoming water
Notable sp.	BT, WR, CW, RW, Sn, MH, HH, RB, CB, Lepid.
Current mgmt.	Non intervention plus some scrub removal
Expansion opportunities ?	No
Management opportunities ?	Along western boundary with land, pools bunding

1.2 Quick reference Map



1.3 Summary

- This is part of the Holton Heath National Nature Reserve and is divided into compartments 16,18,19. There is a reed covered pond in compartment 17
- An extensive continuous reedbed with large blocks of good quality reed with some small areas of saltmarsh.
- Good edge habitats – mixed deciduous and carr woodland to the west, saltmarsh to the south, Poole Harbour to the east
- Notable species (see later): records for Cetti's, reed, sedge and Savi's warbler, reed bunting, bearded tit, marsh and hen harrier.
- Most is tidal with freshwater streams and flushes from the west producing some minor freshwater areas.

- A current Management Plan (1997-2002), combined with Holton Heath, exists with detail of the site's geology, hydrology, flora and fauna etc. but no specific reedbed tasks stated.
- No water management practical or relevant but see next paragraph below
- Compartment 16 (northern section) has some scrub invasion and signs of drying out. This could be excavated and deep pools created in the bed to colonise with new reed
- Work could be done to western carr woodland/ reedbed edge
- Plenty of deer tracks but only localised deer damage
- Could be pollution in run off from adjacent land which reedbeds may significantly treat before discharge into the Harbour

2. Site Description

The whole of the Holton Heath reedbeds are within the Poole Harbour SPA, SSSI and Ramsar boundaries

2.1 General

The Holton reedbeds are a part of the fringing Harbour beds which extend to the south to Keyworth and to the north to East Holton (Holton Lee).

2.2 Access

No public rights of way exists. All access by prior arrangement and permission from English Nature. At the time of the survey there was no access through the main gate at Holton Heath Railway station because of hazardous chemicals (see EN Management Plan) but this would be a usual route. Alternative access for surveyors is from the south through Keyworth Farm (permission from owner Harry Clark). Deep creeks make access across the saltmarshes and Harbour edge of the reedbeds tricky as they are deep and well hidden though the bed itself is quite firm to walk in.

3. Site History

Adjacent to former cordite and other factories (now disused). Considerable human activity on land nearby with allotments, tree planting, fields, nursery, sewage works etc.. Indication that some of the intertidal zone (the reedbed area ?) may once have been sub-tidal rather than intertidal (known as Shore Lake and later Holton Mere).

No specific management of the reedbeds in the past is known about.

Post 1963 permission was given to shoot game including duck on the whole site: some associated management work in the reedbeds included " constructing bridges over rhines on the marshes, clearing paths, cleaning out ponds in the reedbed for use by wildfowl and clearing ditches, including the main drain along the south west boundary" (see Management Plan).

Since declaration of the NNR in 1981 management of the area has concentrated on the heathland restoration. However recording of wildlife in the reedbed has occurred:

- Hen Harrier winter roost counts
- WeBs counts south of the reserve (not included in this survey)
- Reedbed bird survey by Poole RSPB 1995/6
- Moth trapping

4. Current Management

See Management Plan (EN). References to scrub removal in Compartment 16, otherwise regarded as non-intervention.

5. Survey Results

5.1 General

The extensive Holton Heath reedbeds are one of the most important in Poole Harbour. Situated on the north west side of the Harbour they are adjacent to heathland (separated by a railway line), grazing marsh (photo 845), woodland (photos 869 to 874), some minor freshwater marshes (photo 875 and 876), saltmarsh and Poole Harbour. The eastern edge at the Harbour shore is relatively straight with only minor creeks and exhibits little erosion. The mud is soft and there is a gradation of reed density into the water with exposed mud at low tide and some large areas of *Spartina* saltmarsh in the south east (photo 855). The bed is partially (not sure how fully) inundated at high tide.

There is virtually no scrub in the bed and with only minor incursion by scrub from the west as in the northern section – compartment 16.

Generally the bed is good quality, straight, tall, dense reed with a good flowering rate (Photos 846, 847, 851). The reedbed is fairly consistent in quality but as would be expected there are changes in height and density – at SY95379040 (photo 858) the bed is drier with curved reed evident.

There are occasional patches of grassland with one large area, visible on the aerial photo at SY950990 (photo 850). These areas attract grazing sika deer and some grazing is evident (photo 856) creating an area of low reed. Despite the density of the reed there are many deer tracks (photo 857), some acting as ditches (photo 848) and linking pools which may have been started by deer activity.

The reedbed receives some fresh water from flushes and streams along its western boundary. The most notable are a *Typha* bed at SY94859010 (photo 875) and a tongue of freshwater pools and alder protruding into the reedbed at SY94949003 (photo 876).

The edge of the northern section was not explored fully owing to lack of time but the whole length of the woodland edge probably offers good management opportunities. In the south the woodland is overstood birch/sallow/holly/oak with honeysuckle and ivy and alders around previous wetter areas. The hydrology of this southern woodland area and the *typha/carr* area at SY94859010 is worth looking at and it could well be the centre of a glading, pool creation scheme.

There are no banks within the bed and little structural diversity

5.2 Photographic record held on CD ROM

Photo Number P0000	Reedbed	Grid Reference	Direction taken	Notes
845	From south	94708960	N40	Looking to reedbed, showing grazing marsh
846		95878990	NE60	Western edge
847				Almost 100% flowering success
848				Deer track 20-30 cms. deep
849		95029003		Open pool associated with deer tracks
850		95099006	NE50	Open grassy area
851		95139006	SE120	Extensive flowering, view of reedbed
852		95139006	N	General view
854		95229004	N	Harbour eastern edge, soft <i>Spartina</i> saltmarsh. 3 little egrets
855		95239018	S240	General view
856				Deer damage and low reed area
857		95209028	NE60	V. dense good quality reedbed though lots of deer tracks
858		95379040	N	Notably drier with curved reeds but still v. dense

859		95399038		Tidal cover of bed
861		Approx. 95419043		Edge of reedbed against Harbour
862		95419046	NE50	'Extra' reedbed – need to add to DERC maps
863		95419045	SW240	View from sluice
867		95269041	NW320	Small (fw.?) reedbed inside bank
868				General view of reedbed
869		95159036		Carr woodland, mainly sallow and fw. Inlets to reedbed, also vehicle access to bank
870		95119033		Birch/oak/sallow/holly, honeysuckle/ivy woodland on northern edge
871				Bank and pools along northern edge
872				Potential for management within this woodland – coppicing, pollarding, pools
873				Woodland view
874				“
875		94859010		Typha bed, alder carr and fringeing hazel, strong flow of fw.
876		94949003	NE60	'Tongue ' of freshwater pools and alder going into reedbed
877			N70	Edge of Harry Clark's land

5.3 Other references

EN Management Plan

Preliminary Survey of the Reedbeds around Poole Harbour (Price and Pickess) 1993

Reedbed Survey 1996

6. Recommendations

- Wildlife on this bed has been monitored for some time. Site managers should continue to encourage this and centralise the data regularly within EN and through DERC. Hen Harrier roost counts should continue
- A comprehensive management plan for the woodland edges, marshes and carr should be drawn up.
- This should include coppicing (protected from deer by fencing) and leaving piles of brash within the perimeter of the bed to encourage Cetti's warbler
- Cut corridors may be useful in dense areas – thought to help reed warblers – look into this
- By machine work and banking within the bed it may be possible to create an independent freshwater unit which picks up its water from the nearby freshwater source. Pools and ditches can be incorporated. This may not be practical but it is worth looking at.
- Thought should be put into whether there are benefits of open pools within reedbeds to wildfowl (or eels/bitterns?) and if so whether some could be created in parts of this bed which are grassy or saltmarsh.
- The progress of deer damage should be carefully monitored and a 10 metre by 10 metre deer enclosure erected near a damaged area.
- The ecology of the freshwater inlets should be studied, especially after woodland management to open them up and the extent of freshwater in the bed could be looked at.
- The northern reedbed needs a closer inspection – not enough time was available to check it fully
- Obtain records from Roger Peart for bird ringing

7. Species list

N.B. Further moth records from Peter Davey still to be entered in.

7.1 Notable species seen on survey

2 Bearded tits, Water Rail

7.2 Notes from Management Plan:

Records for breeding Cetti's warbler, reed warbler, sedge warbler, Savi's warbler though to have bred in the 1970s, bearded tit (suspected) (several wintering), reed bunting, water rail. Hen harrier roost 1980s to 1990. Marsh harrier bred until 1964 and roosted recently.

7.3 Moth records from Alan Bromby:

		DRDB status
Southern Wainscot	<i>Mythimna straminea</i>	
Matthews Wainscot	<i>M. favicolor</i>	
Flame Wainscot	<i>Senta flammea</i>	R
Twin-spotted Wainscot	<i>Archamara geminipuncta</i>	S
Brown-veined Wainscot	<i>A. dissoluta</i>	S
Silky Wainscot	<i>Chilodes maritimus</i>	S
Obscure Wainscot	<i>Mythimna obsoleta</i>	S

7.4 Harrier winter roosts (Tasie Russell)

Hen Harrier

Bold numbers are counts on separate dates within that year

84/ 85	85/ 86	86/ 87	87/ 88	88/ 89	89/ 90	90/ 91	91/ 92	92/ 93	93/ 94	94/ 95	95/ 96	96/ 97	97/ 98	98/ 99	99/ 00	00/ 01
5	6,5, 5	6,6, 6	5	6, 4-6	3	3	Occ.	Occ.	Occ.	N/c	0,0, 0	2,1	2	0	0	0

The roost site was abandoned after 17/12/89 possibly due to high rainfall and very high tides – only occasional birds since seen.

No longer counted (lack of recorders and difficult access)

Marsh Harrier

1-2 birds most years, irregular and in autumn

7.5 Records from DERC (unsorted)

Pseudosci eropodium purum	a moss	SY946897	SY99/03/1 0	21-May- 84	McGibbon , Mr R.	English Nature (1997)	field record	saltm/othe r	325589
Ranuncul us repens	Creeping Buttercup	SY946896	SY99/03/1 0	21-May- 84	McGibbon , Mr R.	English Nature (1997)	field record	saltm/othe r	292835
Betula sp.	a birch	SY948900	SY99/03/1 0	21-May- 84	McGibbon , Mr R.	English Nature (1997)	field record	saltm/othe r	325621
Cerastium fontanum	Common Mouse- ear	SY946896	SY99/03/1 0	21-May- 84	McGibbon , Mr R.	English Nature (1997)	field record	saltm/othe r	292840
Cerastium fontanum	Common Mouse- ear	SY946897	SY99/03/1 0	12-Oct-87	Chamberl ain, Mr A.P.	English Nature (1997)	field record	saltm/othe r	292865
Persicaria hydropiper	Water- pepper	SY946896	SY99/03/1 0	21-May- 84	McGibbon , Mr R.	English Nature (1997)	field record	saltm/othe r	292841
Rumex acetosa	Common Sorrel	SY946896	SY99/03/1 0	21-May- 84	McGibbon , Mr R.	English Nature (1997)	field record	saltm/othe r	292832
Rumex acetosa	Common Sorrel	SY946897	SY99/03/1 0	21-May- 84	McGibbon , Mr R.	English Nature (1997)	field record	saltm/othe r	325590
Rumex acetosa	Common Sorrel	SY946897	SY99/03/1 0	21-May- 84	McGibbon , Mr R.	English Nature (1997)	field record	saltm/othe r	325597
Rumex acetosa	Common Sorrel	SY946897	SY99/03/1 0	12-Oct-87	Chamberl ain, Mr A.P.	English Nature (1997)	field record	saltm/othe r	292870
Armeria	Thrift	SY946897	SY99/03/1	21-May-	McGibbon	English	field	saltm/othe	325580

maritima			0		84	, Mr R.	Nature (1997)	record	r	
Armeria maritima	Thrift		SY946897	SY99/03/10	12-Oct-87	Chamberlain, Mr A.P.	English Nature (1997)	field record	saltn/othe r	292858
Salix cinerea	Grey Willow		SY948900	SY99/03/10	21-May-84	McGibbon, Mr R.	English Nature (1997)	field record	saltn/othe r	325620
Primula veris	Cowslip	DN	SY946897	SY99/03/10	21-May-84	McGibbon, Mr R.	English Nature (1997)	field record	saltn/othe r	292876
Primula veris	Cowslip	DN	SY946897	SY99/03/10	21-May-84	McGibbon, Mr R.	English Nature (1997)	field record	saltn/othe r	325616
Rubus fruticosus agg.	Bramble		SY946896	SY99/03/10	21-May-84	McGibbon, Mr R.	English Nature (1997)	field record	saltn/othe r	292852
Rubus fruticosus agg.	Bramble		SY946897	SY99/03/10	21-May-84	McGibbon, Mr R.	English Nature (1997)	field record	saltn/othe r	325599
Potentilla anserina	Silverweed		SY946896	SY99/03/10	21-May-84	McGibbon, Mr R.	English Nature (1997)	field record	saltn/othe r	292838
Potentilla anserina	Silverweed		SY946897	SY99/03/10	21-May-84	McGibbon, Mr R.	English Nature (1997)	field record	saltn/othe r	325595
Potentilla erecta	Tormentil	DN	SY946897	SY99/03/10	21-May-84	McGibbon, Mr R.	English Nature (1997)	field record	saltn/othe r	325591
Potentilla erecta	Tormentil	DN	SY946897	SY99/03/10	21-May-84	McGibbon, Mr R.	English Nature (1997)	field record	saltn/othe r	325609
Potentilla erecta	Tormentil	DN	SY946897	SY99/03/10	12-Oct-87	Chamberlain, Mr A.P.	English Nature (1997)	field record	saltn/othe r	292869
Lotus corniculatus	Common Bird's-foot-trefoil	DN	SY946896	SY99/03/10	21-May-84	McGibbon, Mr R.	English Nature (1997)	field record	saltn/othe r	292846
Lotus corniculatus	Common Bird's-foot-trefoil	DN	SY946897	SY99/03/10	21-May-84	McGibbon, Mr R.	English Nature (1997)	field record	saltn/othe r	292873
Lotus corniculatus	Common Bird's-foot-trefoil	DN	SY946897	SY99/03/10	21-May-84	McGibbon, Mr R.	English Nature (1997)	field record	saltn/othe r	325606
Lotus pedunculatus	Large Bird's-foot-trefoil	DN	SY946896	SY99/03/10	21-May-84	McGibbon, Mr R.	English Nature (1997)	field record	saltn/othe r	292831
Lotus pedunculatus	Large Bird's-foot-trefoil	DN	SY946897	SY99/03/10	21-May-84	McGibbon, Mr R.	English Nature (1997)	field record	saltn/othe r	325594
Vicia cracca	Tufted Vetch		SY946896	SY99/03/10	21-May-84	McGibbon, Mr R.	English Nature (1997)	field record	saltn/othe r	292836
Vicia sativa	Common Vetch		SY946897	SY99/03/10	21-May-84	McGibbon, Mr R.	English Nature (1997)	field record	saltn/othe r	325582
Vicia sativa	Common Vetch		SY946897	SY99/03/10	21-May-84	McGibbon, Mr R.	English Nature (1997)	field record	saltn/othe r	325598
Trifolium repens	White Clover		SY946897	SY99/03/10	21-May-84	McGibbon, Mr R.	English Nature (1997)	field record	saltn/othe r	325584
Trifolium repens	White Clover		SY946897	SY99/03/10	12-Oct-87	Chamberlain, Mr A.P.	English Nature (1997)	field record	saltn/othe r	292860
Trifolium pratense	Red Clover		SY946896	SY99/03/10	21-May-84	McGibbon, Mr R.	English Nature (1997)	field record	saltn/othe r	292833
Trifolium pratense	Red Clover		SY946897	SY99/03/10	21-May-84	McGibbon, Mr R.	English Nature (1997)	field record	saltn/othe r	325608
Trifolium pratense	Red Clover		SY946897	SY99/03/10	12-Oct-87	Chamberlain, Mr A.P.	English Nature (1997)	field record	saltn/othe r	292867
Ulex europaeus	Gorse		SY946896	SY99/03/10	21-May-84	McGibbon, Mr R.	English Nature (1997)	field record	saltn/othe r	292851
Ulex europaeus	Gorse		SY946897	SY99/03/10	21-May-84	McGibbon, Mr R.	English Nature (1997)	field record	saltn/othe r	325600
Oenanthe	Parsley	DN	SY946897	SY99/03/10	21-May-	McGibbon	English	field	saltn/othe	325578

<i>lachenalii</i>	Water-dropwort		0		84	, Mr R.	Nature (1997)	record	r	
<i>Oenanthe lachenalii</i>	Parsley Water-dropwort	DN	SY946897	SY99/03/10	12-Oct-87	Chamberlain, Mr A.P.	English Nature (1997)	field record	saltn/othe r	292856
<i>Ajuga reptans</i>	Bugle		SY946897	SY99/03/10	21-May-84	McGibbon, Mr R.	English Nature (1997)	field record	saltn/othe r	292874
<i>Ajuga reptans</i>	Bugle		SY946897	SY99/03/10	21-May-84	McGibbon, Mr R.	English Nature (1997)	field record	saltn/othe r	325614
<i>Plantago lanceolata</i>	Ribwort Plantain		SY946896	SY99/03/10	21-May-84	McGibbon, Mr R.	English Nature (1997)	field record	saltn/othe r	292850
<i>Plantago lanceolata</i>	Ribwort Plantain		SY946897	SY99/03/10	21-May-84	McGibbon, Mr R.	English Nature (1997)	field record	saltn/othe r	325607
<i>Plantago lanceolata</i>	Ribwort Plantain		SY946897	SY99/03/10	12-Oct-87	Chamberlain, Mr A.P.	English Nature (1997)	field record	saltn/othe r	292864
<i>Veronica officinalis</i>	Heath Speedwell		SY946897	SY99/03/10	21-May-84	McGibbon, Mr R.	English Nature (1997)	field record	saltn/othe r	292872
<i>Veronica officinalis</i>	Heath Speedwell		SY946897	SY99/03/10	21-May-84	McGibbon, Mr R.	English Nature (1997)	field record	saltn/othe r	325611
<i>Veronica chamaedrys</i>	Germander Speedwell		SY946896	SY99/03/10	21-May-84	McGibbon, Mr R.	English Nature (1997)	field record	saltn/othe r	292847
<i>Veronica chamaedrys</i>	Germander Speedwell		SY946897	SY99/03/10	21-May-84	McGibbon, Mr R.	English Nature (1997)	field record	saltn/othe r	325588
<i>Cirsium palustre</i>	Marsh Thistle		SY946896	SY99/03/10	21-May-84	McGibbon, Mr R.	English Nature (1997)	field record	saltn/othe r	292829
<i>Cirsium palustre</i>	Marsh Thistle		SY946897	SY99/03/10	21-May-84	McGibbon, Mr R.	English Nature (1997)	field record	saltn/othe r	325596
<i>Cirsium palustre</i>	Marsh Thistle		SY946897	SY99/03/10	21-May-84	McGibbon, Mr R.	English Nature (1997)	field record	saltn/othe r	325612
<i>Cirsium arvense</i>	Creeping Thistle		SY946897	SY99/03/10	21-May-84	McGibbon, Mr R.	English Nature (1997)	field record	saltn/othe r	325613
<i>Cirsium arvense</i>	Creeping Thistle		SY946897	SY99/03/10	12-Oct-87	Chamberlain, Mr A.P.	English Nature (1997)	field record	saltn/othe r	292863
<i>Hypochaeris radicata</i>	Cat's-ear		SY946896	SY99/03/10	21-May-84	McGibbon, Mr R.	English Nature (1997)	field record	saltn/othe r	292839
<i>Hypochaeris radicata</i>	Cat's-ear		SY946897	SY99/03/10	21-May-84	McGibbon, Mr R.	English Nature (1997)	field record	saltn/othe r	325592
<i>Hypochaeris radicata</i>	Cat's-ear		SY946897	SY99/03/10	21-May-84	McGibbon, Mr R.	English Nature (1997)	field record	saltn/othe r	325605
<i>Hypochaeris radicata</i>	Cat's-ear		SY946897	SY99/03/10	12-Oct-87	Chamberlain, Mr A.P.	English Nature (1997)	field record	saltn/othe r	292866
<i>Taraxacum officinale</i>	Dandelion		SY946897	SY99/03/10	21-May-84	McGibbon, Mr R.	English Nature (1997)	field record	saltn/othe r	325610
<i>Taraxacum officinale</i>	Dandelion		SY946897	SY99/03/10	12-Oct-87	Chamberlain, Mr A.P.	English Nature (1997)	field record	saltn/othe r	292868
<i>Aster tripolium</i>	Sea Aster	DN	SY946897	SY99/03/10	21-May-84	McGibbon, Mr R.	English Nature (1997)	field record	saltn/othe r	325579
<i>Aster tripolium</i>	Sea Aster	DN	SY946897	SY99/03/10	12-Oct-87	Chamberlain, Mr A.P.	English Nature (1997)	field record	saltn/othe r	292857
<i>Achillea millefolium</i>	Yarrow		SY946896	SY99/03/10	21-May-84	McGibbon, Mr R.	English Nature (1997)	field record	saltn/othe r	292845
<i>Achillea millefolium</i>	Yarrow		SY946897	SY99/03/10	21-May-84	McGibbon, Mr R.	English Nature (1997)	field record	saltn/othe r	325586
<i>Achillea millefolium</i>	Yarrow		SY946897	SY99/03/10	21-May-84	McGibbon, Mr R.	English Nature (1997)	field record	saltn/othe r	325604

Achillea millefolium	Yarrow		SY946897	SY99/03/10	12-Oct-87	Chamberlain, Mr A.P.	(1997) English Nature	field record	saltm/other	292862
Juncus maritimus	Sea Rush		SY946896	SY99/03/10	21-May-84	McGibbon, Mr R.	(1997) English Nature	field record	saltm/other	292842
Juncus maritimus	Sea Rush		SY946897	SY99/03/10	21-May-84	McGibbon, Mr R.	(1997) English Nature	field record	saltm/other	325577
Juncus effusus	Soft Rush		SY946896	SY99/03/10	21-May-84	McGibbon, Mr R.	(1997) English Nature	field record	saltm/other	292837
Juncus effusus	Soft Rush		SY947898	SY99/03/10	21-May-84	McGibbon, Mr R.	(1997) English Nature	field record	saltm/other	325617
Juncus effusus	Soft Rush		SY948900	SY99/03/10	21-May-84	McGibbon, Mr R.	(1997) English Nature	field record	saltm/other	325618
Luzula campestris	Field Wood-rush		SY946897	SY99/03/10	21-May-84	McGibbon, Mr R.	(1997) English Nature	field record	saltm/other	325603
Carex disticha	Brown Sedge	DN	SY946897	SY99/03/10	21-May-84	McGibbon, Mr R.	(1997) English Nature	field record	saltm/other	325581
Carex disticha	Brown Sedge	DN	SY946897	SY99/03/10	12-Oct-87	Chamberlain, Mr A.P.	(1997) English Nature	field record	saltm/other	292855
Carex hirta	Hairy Sedge		SY946897	SY99/03/10	21-May-84	McGibbon, Mr R.	(1997) English Nature	field record	saltm/other	292875
Carex hirta	Hairy Sedge		SY946897	SY99/03/10	21-May-84	McGibbon, Mr R.	(1997) English Nature	field record	saltm/other	325615
Carex acutiformis	Lesser Pond-sedge		SY946896	SY99/03/10	21-May-84	McGibbon, Mr R.	(1997) English Nature	field record	saltm/other	292828
Carex acutiformis	Lesser Pond-sedge		SY946897	SY99/03/10	21-May-84	McGibbon, Mr R.	(1997) English Nature	field record	saltm/other	325593
Carex caryophyllaea	Spring Sedge	DN	SY946897	SY99/03/10	21-May-84	McGibbon, Mr R.	(1997) English Nature	field record	saltm/other	325587
Festuca rubra sens.str.	Red Fescue		SY946896	SY99/03/10	21-May-84	McGibbon, Mr R.	(1997) English Nature	field record	saltm/other	292843
Festuca rubra sens.str.	Red Fescue		SY946897	SY99/03/10	21-May-84	McGibbon, Mr R.	(1997) English Nature	field record	saltm/other	325583
Festuca rubra sens.str.	Red Fescue		SY946897	SY99/03/10	21-May-84	McGibbon, Mr R.	(1997) English Nature	field record	saltm/other	325602
Festuca rubra sens.str.	Red Fescue		SY946897	SY99/03/10	12-Oct-87	Chamberlain, Mr A.P.	(1997) English Nature	field record	saltm/other	292859
Lolium perenne	Perennial Rye-grass		SY946896	SY99/03/10	21-May-84	McGibbon, Mr R.	(1997) English Nature	field record	saltm/other	292849
Cynosuroides cristatus	Crested Dog's-tail		SY946896	SY99/03/10	21-May-84	McGibbon, Mr R.	(1997) English Nature	field record	saltm/other	292848
Glyceria sp.	a sweet-grass		SY948900	SY99/03/10	21-May-84	McGibbon, Mr R.	(1997) English Nature	field record	saltm/other	325619
Holcus lanatus	Yorkshire-fog		SY946896	SY99/03/10	21-May-84	McGibbon, Mr R.	(1997) English Nature	field record	saltm/other	292834
Anthoxanthum odoratum	Sweet Vernal Grass		SY946896	SY99/03/10	21-May-84	McGibbon, Mr R.	(1997) English Nature	field record	saltm/other	292844
Agrostis sp.	a bent-grass		SY946896	SY99/03/10	21-May-84	McGibbon, Mr R.	(1997) English Nature	field record	saltm/other	292830
Alopecurus bulbosus	Bulbous Foxtail	Nationally Scarce	SY946897	SY99/03/10	21-May-84	McGibbon, Mr R.	(1997) English Nature	field record	saltm/other	325585
Alopecurus bulbosus	Bulbous Foxtail	Nationally Scarce	SY946897	SY99/03/10	12-Oct-87	Chamberlain, Mr A.P.	(1997) English Nature	field record	saltm/other	292861
Bromus hordeaceus	a soft-brome		SY946897	SY99/03/10	12-Oct-87	Chamberlain, Mr A.P.	(1997) English Nature	field record	saltm/other	292871

s ssp. hordeaceu s				A.P.		(1997)				
Phragmites s australis	Common Reed		SY946897	SY99/03/1 0	12-Oct-87	Chamberl ain, Mr A.P.	English Nature (1997)	field record	saltn/othe r	292854
Rallus aquaticus	Water Rail	AMBER	SY948900	SY99/03/1 0	21-May- 84	McGibbon , Mr R.	English Nature (1997)	field record	saltn/othe r	325622
Saxicola torquata	Stonechat	AMBER	SY946896	SY99/03/1 0	21-May- 84	McGibbon , Mr R.	English Nature (1997)	field record	saltn/othe r	292853
Saxicola torquata	Stonechat	AMBER	SY946897	SY99/03/1 0	21-May- 84	McGibbon , Mr R.	English Nature (1997)	field record	saltn/othe r	325601

REEDBED ASSESSMENT FORM

Site: Holton Heath main reedbed Compts. 16,18,19 Recorder KC	Grid ref. (site/sample) SY 950901	Owner/contact number English Nature
Date: 26/10/00		

Size	<1ha	1-5ha	5-10ha	>10ha *
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Adjacent land use	Arable	Pasture nearby	Woodland *	Heath *	Reed *	Saltmarsh *	Carr *	Other Marsh	Other Harbour
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Shape	Linear	Block *	Potential for expansion	No	Amount of % gain
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% area of presence of	Poor reed 5	Good reed 80	Rush	Saltmarsh 5	Scrub ? in 16	Pools/ditches	banks	Other
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Water source	Fresh - river/stream Minor source	Fresh - groundwater Minor source	Saline - tidal Mainly	Saline with fresh
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PH (fw)	Fw in ditches :6.86	Salinity	Saline parts no water to test	Signs of	Deer *	Cattle	Grazing
---------	------------------------	----------	----------------------------------	----------	--------	--------	---------

Ditches	Not relevant *	Not present	Not functioning	Functioning well
Sluices	Not relevant *	Not present	Not functioning	Functioning well

Water flow	Not obvious *	Through bed	Through ditches/stream	Tidal *
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Water level above litter cm.	No water *
Leaf litter cm.	No significant litter *

Scrub	0	0-10 in 16	10-50	More	Edge *	Scattered
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Species	Scrub in 16 is <i>Salix cinerea</i> and <i>Betula</i> sp. . Edge scrub includes this plus mixed deciduous species
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REED CONDITION			
Height	<1.5	1.5-2.5 2.3-2.4	>2.5

Density m ²	<100	100-200	>200 220 +
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Flower spike %	75%
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Stem diameter at butt	5-7mm
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Straightness	All curved	75:25	50:50	25:75	All straight Except edges
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Hardness (squeeze at butt end)	Hard *	Soft
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MOTH RECORDS FOR HOLTON HEATH from Peter Davey

Date	Species		Recorder
7/6/95	Matthew's wainscot	<i>Mythimna favicolor</i>	Alan Bromby
15/6/95	Obscure wainscot	<i>M. obsoleta</i>	Peter Davey
20/8/97	Matthew's wainscot	<i>M. favicolor</i>	Peter Davey
6/8/97	Crescent-striped	<i>Apamea oblonga</i>	Peter Davey
20/8/97	Silky wainscot	<i>Chilodes maritima</i>	Peter Davey
21/6/98	Silky wainscot	<i>Chilodes maritima</i>	Peter Davey
21/6/98	Obscure wainscot	<i>Mythimna obsoleta</i>	Ray Cook, Don Humphreys
31/7/99	Brown-veined wainscot	<i>Archanara dissoluta</i>	Peter Davey
31/7/99	Silky wainscot	<i>Chilodes maritimus</i>	Peter Davey

Holton Heath reedbeds jjpgs



HOLTON aerial.CDR



P0000647.JPG



P0000650.JPG



P0000654.JPG



P0000645.JPG



P0000648.JPG



P0000651.JPG



P0000655.JPG



P0000646.JPG



P0000649.JPG



P0000652.JPG



P0000656.JPG

[1]

Name: Holton Heath Reedbeds001.bmp
Dimensions: 1024 x 768 pixels

Holton Heath reedbeds.jpgs



P0000657.JPG



P0000660.JPG



P0000663.JPG



P0000668.JPG



P0000658.JPG



P0000661.JPG



P0000667.JPG



P0000670.JPG



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P0000662.JPG



P0000668.JPG



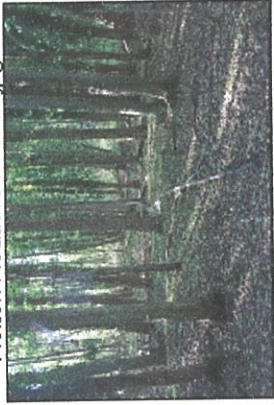
P0000671.JPG

[2]

Holton Heath reedbeds.jpgs



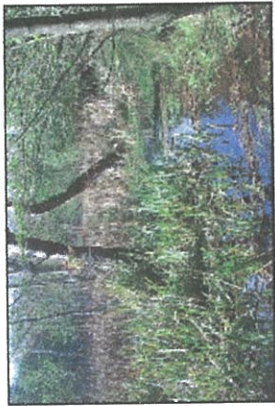
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P0000873.JPG



P0000874.JPG



P0000875.JPG



P0000876.JPG



P0000877.JPG

Name: Holton Heath Reedbeds003.bmp
Dimensions: 1024 x 768 pixels

395000

395000

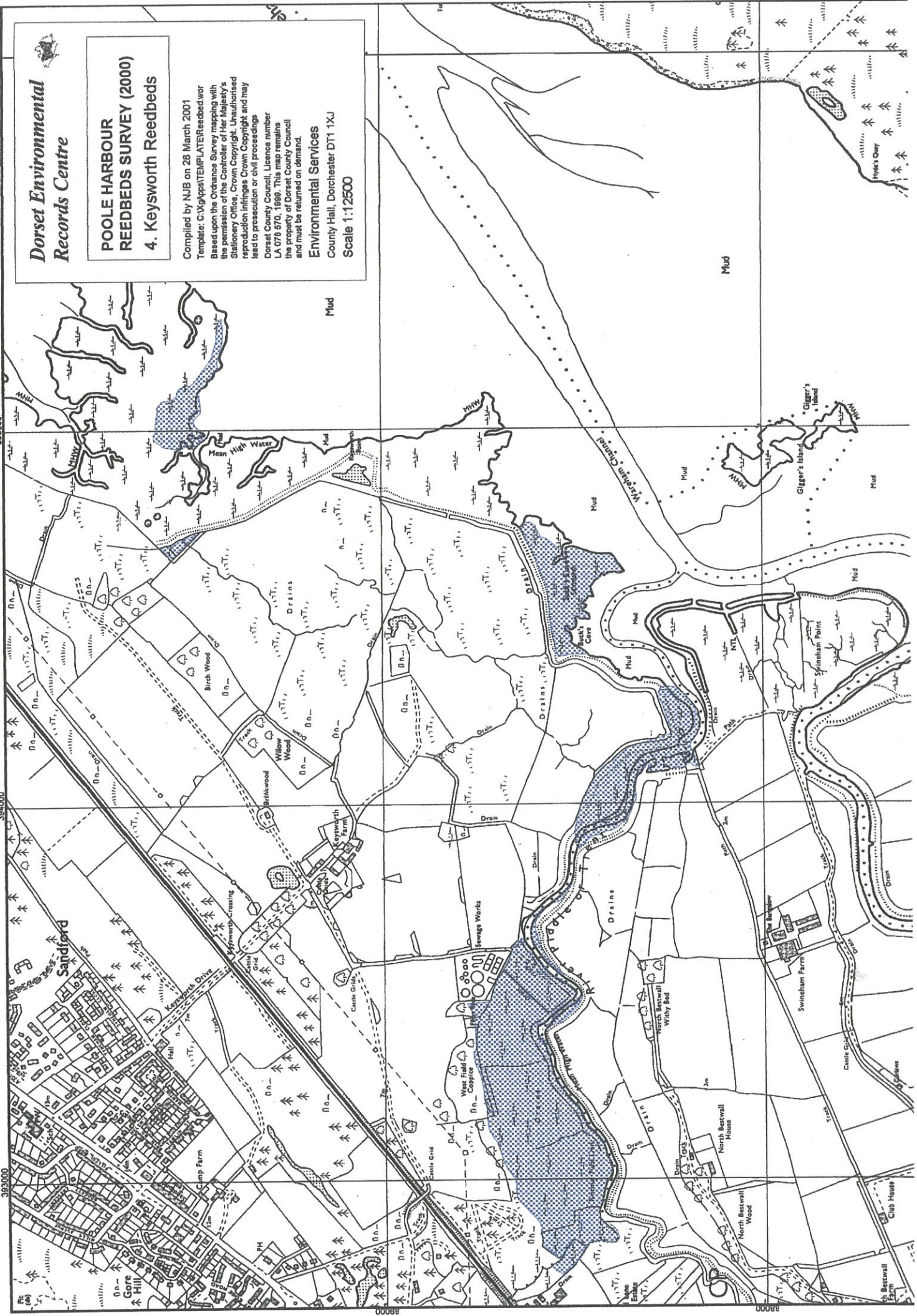
394000

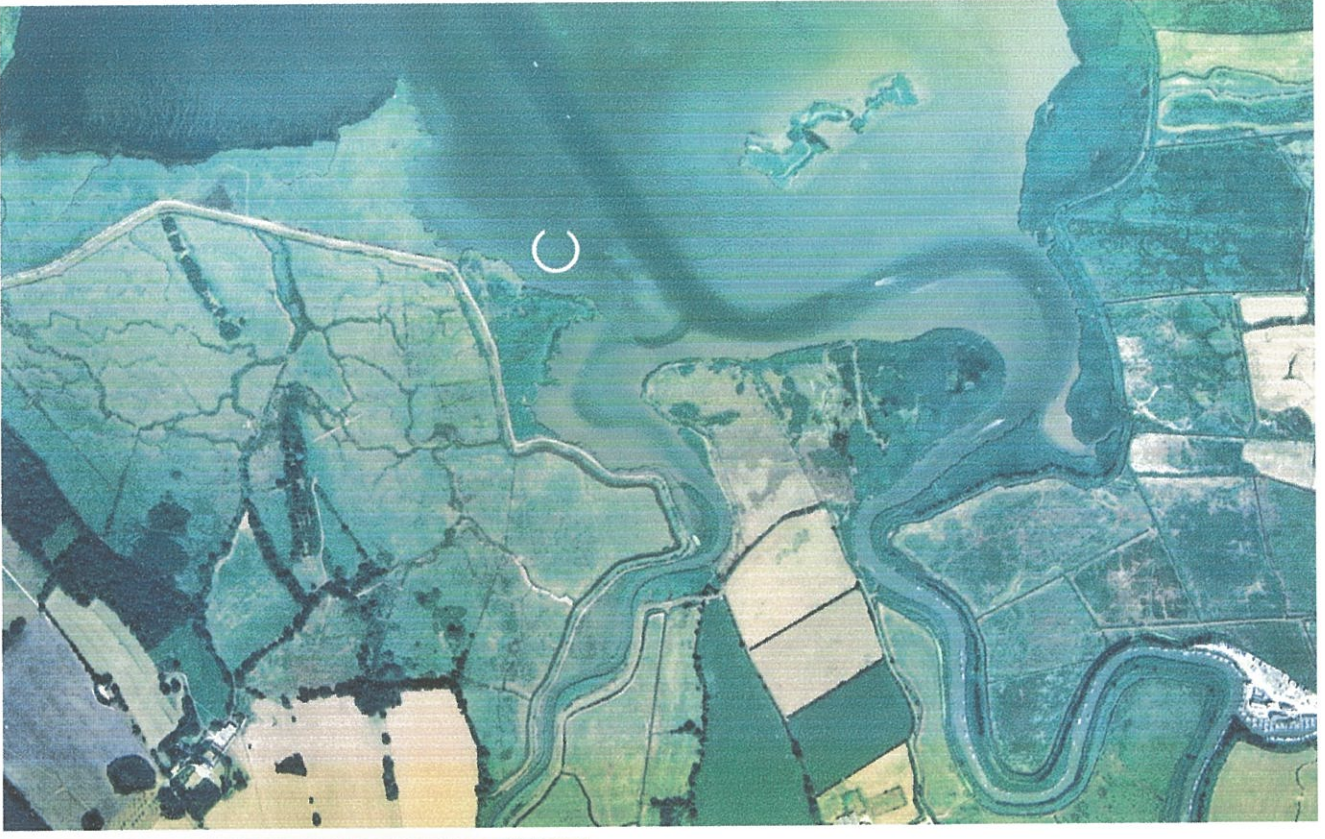
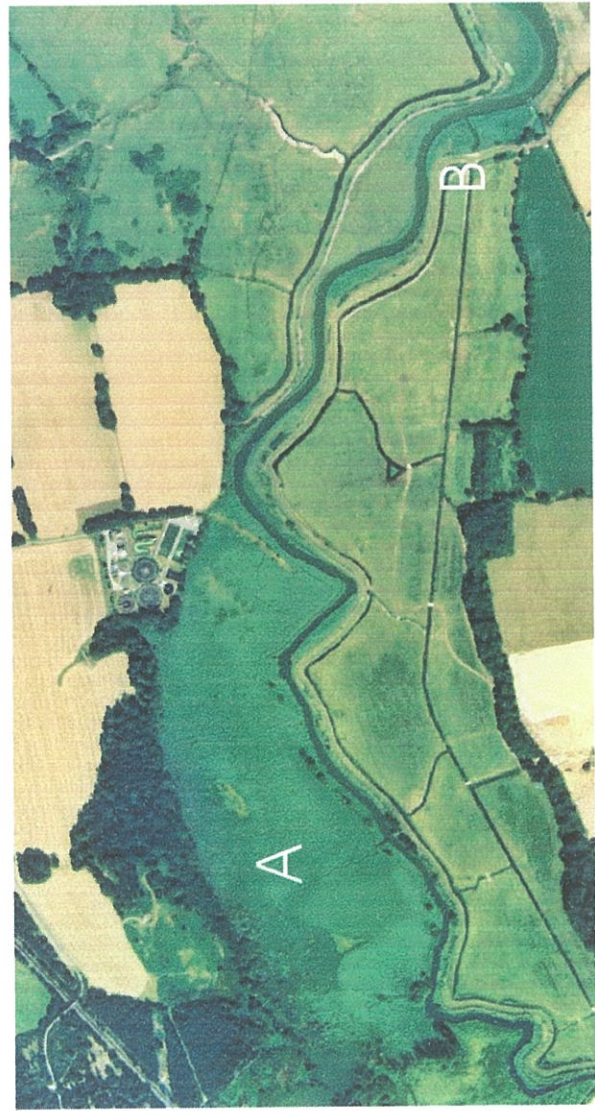
393000

**Dorset Environmental
Records Centre**

**POOLE HARBOUR
REEBEDS SURVEY (2000)
4. Keyworth Reedbeds**

Compiled by NJB on 28 March 2001
Template: C:\V\pp\TEMPLATE\REEDBED.WOR
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Scale 1:12500





4. KEYSWORTH REEDBEDS
A,B,C

4. KEYSWORTH (Kesworth) REEDBEDS including Bucks Cove and Shag Looe Head

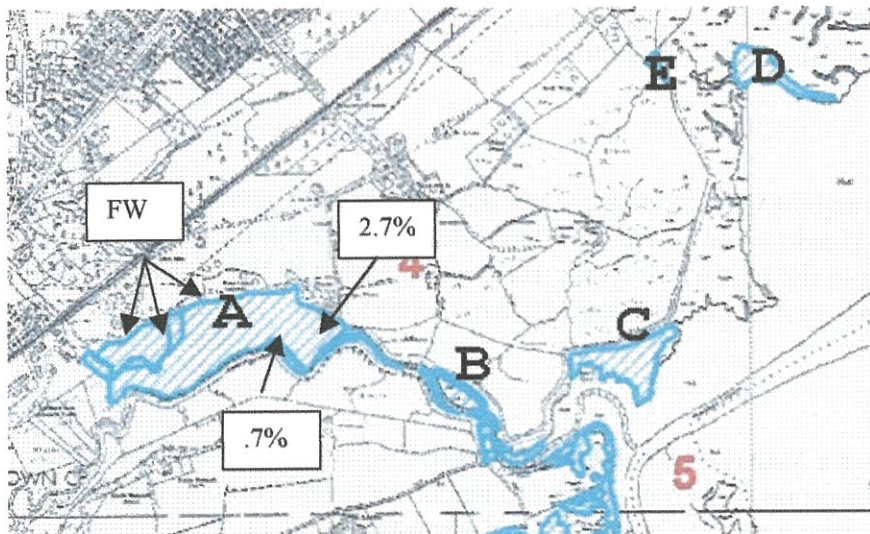
Grid Ref. Reedbed A :SY 934886,B: SY940883, C: SY945885, D: SY949896, E: SY947896
Survey date: 25/10/00

1. Summary

1.1 Table

Key features	Summary
Reedbed area (hectares)	A – 17.3, B (complex) – 1.41, C- 3.54, D – 2.03, E- .22
Hydrology	Slightly saline (1-2% seawater), partly tidal, some fw areas
Condition	Good
State	Stable
Adjacent to	Pasture, woodland, heathland, river
Mgmt. Problems	Ingress of saltwater
Notable sp.	BT, WR, CW, RW, AqW(m),SW(m), GrW(m), SC(old record), Sn. (m- migrants only)
Current mgmt.	No conservation mgmt.
Expansion opportunities ?	Only in theory
Management opportunities ?	Yes – esp. along boundary with land

1.2. Quick reference map



Salinity as %seawater, FW - freshwater

1.3 Key features

- Extensive block of reed 'A' in the west plus two smaller beds 'B' and 'C' (Bucks Cove) extending east and northwards round the Harbour edge to meet Holton reedbeds with two other small beds D (2.03 hectares) along the south western shore of the spit to Shag Looe Head and E inside the sea wall to the west of D
- Mainly slightly saline but the larger reedbed 'A' has some small fresh areas at its extreme north western and northern edges. The tidal C has a salinity of 3.5% seawater.
- Tidal influence restricted by seawall though the tidal flaps are damaged allowing some sea water in

- Reedbed A is an extensive block with generally tall quality reed
- Reedbeds B,C and D are smaller, unprotected by the sea wall and of less significance
- Reedbed E is a small freshwater bed inside the sea wall
- Signs of deer in the beds but no significant grazing damage
- Notable species include records from Stour Ringing Group from 1991 for migrant common reedbed species plus aquatic warbler and old records for spotted crane (1994) (see table at end)
- These reedbeds form an important complex with nearby grazing marsh, freshwater ditches, woodland and other Poole Harbour reedbeds
- Currently owned by landowner sympathetic to wildlife conservation
- Some options for management (see Recommendations) and possible (theoretical) expansion
- A Management Agreement exists with English Nature for grazing the marshes

2. Site Description

The whole of the Keysworth reedbeds are within the Poole Harbour SPA, SSSI and Ramsar boundaries

2.1 General

These reedbeds are named as Keysworth reedbeds as they fall within the estate of Kesworth Farm. KESWORTH is believed by Mr. Clark, the owner, to be the original spelling and pronunciation of the area.

2.2 Access

The simplest access is via the farm through the gate over the railway from Kesworth Drive at Sandford. Turning right at the house takes you to the sewage works where there is a gate into A. Walking along the sea wall gives access to B and C. D is best accessed by driving left from the farm as far as you can go and parking near the saltmarsh. All the reedbeds are safe as far as mud and ditches are concerned though be aware of the deep ditch parallel to the river in A and a deep ditch in Bucks Cove reedbed.

3. Site History

Older maps (see map enclosed with Management Agreement) show the reedbed as 3 meadows – from the west: Bowling Green, Higher Northam Meadow and Lower Northam Meadow. Within living memory these were much more open - for example the owner, Mr Clark, relates that earlier in the 1900s Northam Meadow was used for drying fishing nets. Part of reedbed was last cut 12 years ago.

4. Current Management

None specifically in the reedbed. There is a Management Agreement with English Nature which covers the grazing marsh and reedbeds. This allows up to 7 acres of reed to be cut each year (though this does not happen) and up to 10 yearling cattle are allowed to be grazed in the reedbed (unit 1). There is no serious damage in the reedbed as a result of cattle grazing so there does not appear to be any need to restrict this.

The reedbed has been the subject of annual birdringing for many years, particularly since 1991 when the Stour Ringing Group have organised late summer ringing to pick up migrants (see table in Species List). A corridor is cut in the reeds for this purpose.

5. Survey Results

5.1 Reedbed A

Aerial photos: SY 9388, SY 9488 or DCC 22-0323

Use composite on CD *Keysworth aerial.bmp* and *Kworth A.jpg*

Site photos: 779-810

This extensive reedbed forms a curved rectangle of reed going east-west along the River Piddle to nearly as far west as the railway line at Northport, Wareham. A clockwise route from gate at the sewage works (photo 779) takes you rapidly into the bed and the banks of the River Piddle. Some bramble patches near the entrance may attract nesting Cetti's warbler. There is a broad grassy track through the bed along its southern edge as part of the river wall (photos 780,781). There are occasional trees on this and meadow ants' nests (photo 788,789). Along most of its length is a deep internal ditch making access into the bed difficult from the river bank. There are signs of past water management with tidal flaps at SY93468854 and SY93148849, both apparently not working so the bed is presumably more saline than in the past and floods more rapidly from the river.

Generally the reeds are in good condition (photo 785) though there is some litter build up (photo 787) and often the height is variable- the reeds are often only 1-2 metres high but there are clumps of 2.3-2.4 metre high reeds - there is very tall reed in a freshwater area at SY93048845 for example. The reedbed is quite wet throughout. Towards the western and northern end of the bed it gets progressively fresher being saline over much of the eastern and southern sections. Where the salinity changes to fresh there is a definite zone of curved reeds as at SY93048845 (photo 796).

There are few open areas in the bed – a grassy rushy area exists at SY93018853 (photo 799) but there are few of these though the bed gets progressively more rushy and with a mixed flora in the fresher areas towards the western boundary.

The zones of fresh water must be highly variable depending upon rainfall and tidal conditions and therefore freshwater plants do not appear in the bed until the fresh content is permanent. This is limited to the western and northern boundary areas where bog myrtle, marsh pennywort, gypsywort etc. survive (photo 801).

The fresh areas are developing signs of drying out and scrub encroachment, especially along the northern border (photo 802, . This is secondary woodland (birch,holly etc.) which grows into the marsh as a very narrow strip of willows and alder – there is little carr or intermediate zone (photos 804 806) though there is an interesting marshy inlet into the reedbed at SY93368878 with a relic freshwater marsh flora which would benefit from some felling and clearance (photo 808).

In conclusion this bed is in reasonable condition with nothing seriously affecting it other than limited drying out at the edges. It is almost a solid mass of dense tall reed. However its wildlife value could be improved by sealing it off more effectively from the river and creating a fresher environment which should be achieved by repairing the tidal flaps.

5.2 Reedbed B

Aerial photo: SY9488 also see composite aerial and *Kworth B and C.jpg*

Site photos: 811-820

Reedbed B includes some small patches of reed which are associated with the sea wall further east and downstream of Reedbed A. Reedbed B proper is on the river side of the sea wall. At the time of the survey it was dry. There is an open grassy area adjacent to the seawall (photo 816) and then reed is progressively denser towards the river. In the tidal area the reed is tall (2.5 metre) though not very dense (<100) (photo 817). Scrub on the nearby sea wall attracts Cetti's warbler (one seen on survey). There is no potential here for management work.

5.3 Reedbed C

Aerial photos: SY9488 and see *Kworth B and C.jpg*

Site photos:821-835

Situated on the southern edge of Bucks Cove spit this is a dense uniform reedbed, It is on the outside of the seawall and is therefore largely tidal. A ditch parallel to the seawall and a few metres into the bed had a salinity of 3.5% seawater (photo 828). Reeds were tall (2 metres) dense (100-200) and very straight. There is no scrub though there are a few scattered grassy areas. Shallow saline pools are scattered throughout with odd patches of *Spartina* and sea aster. The edge with the Harbour is eroding with lots of small inlets (photos 833,834). The nearby sea wall has bramble patches - a Cetti's warbler was seen using these on the survey.

5.4 Reedbed D

Aerial photos: SY 9489, also *Kworth D and E.jpg*

Site photos: 837-844

Reedbed D. The Shag Looe reedbed is only 2.03 hectares on a lightly raised part of an extensive saltmarsh. The reeds are quite low (1.3 – 1.5 metres) but dense enough to harbour wintering water rail. The edges have curved reeds and suffer from physical damage by wave action on high tides. It is assumed that much of the reedbed if not all is covered on at least some of the high spring tides but the central area is perhaps dry during most high tides in calm weather. There was no water in the bed during the survey except in the tidal inlets which drain freshwater from the land on low tide. There are extensive deer tracks but no signs of grazing. Where the reeds meet the harbour there is evidence of physical damage to the reeds by wave action or high tides but this does show an average high tide mark (photo 840)

5.6 Reedbed E

Aerial Photo: SY9489, also *Kworth D and E.jpg*

Site photo: 844

This is a small bed on the inside of the seawall and its drain. I did not cross the drain to survey this as the bed is very small and access would be by walking all the way back to the sewage works and returning via the fields. There is *Potamogeton* in the drain here so I assume the bed is freshwater based. Reeds are low but quite dense, and mixed with other plant species. Though small it is still a useful bed for wildlife and could support nesting reed warblers or buntings. Reeds could expand into the field if encouraged.

5.7 Photographic record held on CD ROM

Photo Number	Reedbed	Grid Reference	Direction taken	Notes
P0000				
779	A>	SY93618867		Entrance into reedbed from Sewage works
780		93578862	S240	Along track, bramble gorse willow oak scrub. Dry grassy track with reeds either side
781		93528855	S240	River bank WE
782		93468854		Small bridge near old tidal flap site – inlet to RB on right
783		93468854	NW340	River – looking upstream
784		93458856		Channel through reeds (bird ringing corridor) – freshwater at this tide. Used by cattle ?
785				Reeds at first sample point
786				Scattered deep poole .75m deep, few square metres. Smelly saline water
787				Though tidal there is leaf litter build up as tide is quite weak here
788		93388862		Oak trees along bank, river 20m on left
789		93368861		Meadow ants nest on bank
790		93268857		Deep internal ditch, .5m. deep – deer leap this regularly. Looks fresher
791		93248856		Oaks along bank
792		93148849		Small footbridge and remains of sluice on offshoot of river (N_S). River on left, bridge in line with bank on right is inner ditch
795				General view of reedbed

796		93048845		Curved reed where apparently it changes to freshwater
798		93048848		Very tall reed, in wet area (water rail here)
799		93018853	N	Open, grassy/rushy area
800		92878855	N	Northern Boundary – rushy grazing/bogmyrtle/gorse etc.
801		92958861	SE120	Freshwater area – gypsywort, bog myrtle, J. articulatus, Marsh pennywort etc.
802		92958863		Scrub encroachment along northern edge. Sallow/bog myrtle etc. Need for management here – cutting, pools etc.
803				As above
804		93028868		Northern edge runs to dry willow/birch/alder carr – narrow strip < 20metres wide below steep bank
805		93078874		Holly/birch wood – deer stripping
806		93188874		Path alongside RB edge – rapid change from RB to wood
807		93288877		Alders
808		93368878	W	Marshy inlet into reedbed – pendulous sedge, Oenanthe etc.
810		93518871	S	Below sewage works
811		93748860		Tidal flap south along sea wall near sewage works
812				Tidal flap controls levels in this ditch
813	B >			Rough grazing on left, drainage ditch and bank in centre – walking towards next reedbed
814		93958852		Low fields would make ideal wetland
815		93988473	S160	From boundary bank – onto reedbed B
816				Reedbed B showing grass mat on less tidal area
817				Tall 2.5 metre stems in tidal section
818				Grassy area (outside sea wall)
819				Bramble scrub on both sides of river bank. Add to survey form
820		93468842	S	To northern shore of Swineham
821	C >	94398847	E	Across to Reedbed C (Bucks Cove saltmarsh) from sea wall
823				Sea wall near C
824				Fields behind reedbed C
828				Bucks Cove – C- internal ditch close to bank
829				Marshy field north of Bucks Cove reedbed
831			S	General view of reedbed
832		94638853		Open patch with Sea Aster
833				Harbour edge of Bucks Cove
834		94678846		Harbour edge of Bucks Cove
835				Looking from C to Wareham
837	D >	94948955	SE 140	General view
838		95008951	S120	“ saltmarsh edge, slopes to Harbour. Extensive deer tracks, but no significant grazing, lots of small creeks which fill up on high tide and bring fw down on low. Variable 1-2 metres.
839		95048951	SW 250	View of southern edge with Harbour. Water Rail
840				Reed edge, reeds flattened by high tide
841		95198947	NW330	Northern edge where where it grades into saltmarsh
842		95168943	W300 from tip	Reedbed/Harbour edge
843		94738962	E110	Saltpans?
844	E	94718958	SW250	Fw.? Potamogeton in ditch, stonechats

5.8 Other references

EN Management Agreement

Preliminary Survey of the Reedbeds around Poole Harbour (Price and Pickess) 1993

Reedbed Survey 1996

6. Recommendations

General

- Drain behind sea wall adjacent to the fields is protected from the river by a tidal flap – whilst slightly saline near the flap it is mainly freshwater. Machine work in the fields could draw in this water to

create an attractive range of scrapes, pools and reed. This whole field and reedbed system could be managed as one wetland unit but this would require giving up some grazing land (if not all) which would make the grazing uneconomic

- Need more surveying of breeding birds - more records should exist from visiting birders (contact Hugo Wood Homer)
- Invertebrate surveying is need in all beds and drains
- DERC records need sorting

Reedbed A:

- Examine whether it is possible to seal this bed better from the river and repair tidal flaps and how this will influence the salinity of the bed
- Are there some more opportunities for scrub on the bank and near the entrance and elsewhere ?
- Improve northern edge by coppicing, scraping pools etc.
- Plan out some machine work to revitalise the bed in the north western area in particular

Reedbed E

- Work to the fields (which is very rushy) could encourage an expansion of this bed – as it is probably the only wholly freshwater bed here this should be worth doing.

7. Species lists

7.1 Species seen during survey

Water rail, stonechat, dartford warblers (2 on seawall near B), Cettis warbler (B), snipe (B), water pipits

7.2 Records from the Stour Ringing Group

This is a synopsis to show the value of these beds to migrating birds. The Stour Ringing Group has been ringing here mainly since 1991. Between 1991 and 1995 22 nets were used on weekends between July and September. Since 1995 this was reduced to 11 nets from the last weekend in July to the weekend around the 18th August.

Year	Cettis w.	Grasshopper w.	Aquatic w.	Sedge w.	Reed w.	Reed bunting
91	5	66	20	3444	983	48
92	7	30	13	1903	462	118
93	22	54	7	2659	819	83
94	9	107	17	4275	1355	119
95	11	125	5	1808	394	38
96	6	19	4	679	364	38
97	1	30	11	559	255	16
98	5	15	0	338	123	19
99	6	19	0	506	158	14
2000	5	20	4	630	331	30

7.3 Records from Tasie Russell

Cettis Warbler : singing males, Wareham Meadows to Keyworth : 1994- 2-4, 1996- 4-5, 1997 –1

7.4 Records from DERC

Unsorted records for this grid reference.

<i>Equisetum fluviatile</i>	Water Horsetail		SY927885	SY98/16/0 7	Wareham Meadows (SMU 7)	28-May-87	Chamberlain, Mr A.P.	English Nature (1997)	reedb	289069
<i>Caltha palustris</i>	Marsh Marigold		SY927885	SY98/16/0 7	Wareham Meadows (SMU 7)	28-May-87	Chamberlain, Mr A.P.	English Nature (1997)	reedb	289081
<i>Ranunculus flammula</i>	Lesser Spearwort		SY927885	SY98/16/0 7	Wareham Meadows (SMU 7)	28-May-87	Chamberlain, Mr A.P.	English Nature (1997)	reedb	289060
<i>Lychnis flos-cuculi</i>	Ragged Robin	DN	SY927885	SY98/16/0 7	Wareham Meadows (SMU 7)	28-May-87	Chamberlain, Mr A.P.	English Nature (1997)	reedb	289062
<i>Salix cinerea</i>	Grey Willow		SY927885	SY98/16/0 7	Wareham Meadows (SMU 7)	10-Aug-84	McGibbon, Mr R.	English Nature (1997)	reedb	288951
<i>Salix cinerea</i>	Grey Willow		SY927885	SY98/16/0 7	Wareham Meadows (SMU 7)	28-May-87	Chamberlain, Mr A.P.	English Nature (1997)	reedb	289058
<i>Cardamine pratensis</i>	Cuckoo-flower		SY927885	SY98/16/0 7	Wareham Meadows (SMU 7)	28-May-87	Chamberlain, Mr A.P.	English Nature (1997)	reedb	289061
<i>Lysimachia vulgaris</i>	Yellow Loosestrife	DN	SY927885	SY98/16/0 7	Wareham Meadows (SMU 7)	10-Aug-84	McGibbon, Mr R.	English Nature (1997)	reedb	288948
<i>Filipendula ulmaria</i>	Meadowsweet		SY927885	SY98/16/0 7	Wareham Meadows (SMU 7)	28-May-87	Chamberlain, Mr A.P.	English Nature (1997)	reedb	289080
<i>Potentilla palustris</i>	Marsh Cinquefoil	DN	SY927885	SY98/16/0 7	Wareham Meadows (SMU 7)	28-May-87	Chamberlain, Mr A.P.	English Nature (1997)	reedb	289067
<i>Lotus pedunculatus</i>	Large Bird's-foot-trefoil	DN	SY927885	SY98/16/0 7	Wareham Meadows (SMU 7)	10-Aug-84	McGibbon, Mr R.	English Nature (1997)	reedb	288947
<i>Lotus pedunculatus</i>	Large Bird's-foot-trefoil	DN	SY927885	SY98/16/0 7	Wareham Meadows (SMU 7)	28-May-87	Chamberlain, Mr A.P.	English Nature (1997)	reedb	289079
<i>Ulex europaeus</i>	Gorse		SY927885	SY98/16/0 7	Wareham Meadows (SMU 7)	10-Aug-84	McGibbon, Mr R.	English Nature (1997)	reedb	288952
<i>Ulex europaeus</i>	Gorse		SY927885	SY98/16/0 7	Wareham Meadows (SMU 7)	28-May-87	Chamberlain, Mr A.P.	English Nature (1997)	reedb	289059
<i>Hydrocotyle vulgaris</i>	Marsh Pennywort	DN	SY927885	SY98/16/0 7	Wareham Meadows (SMU 7)	10-Aug-84	McGibbon, Mr R.	English Nature (1997)	reedb	288950
<i>Berula erecta</i>	Lesser Water-parsnip	DN	SY927885	SY98/16/0 7	Wareham Meadows (SMU 7)	28-May-87	Chamberlain, Mr A.P.	English Nature (1997)	reedb	289074
<i>Oenanthe crocata</i>	Hemlock Water-dropwort		SY927885	SY98/16/0 7	Wareham Meadows (SMU 7)	10-Aug-84	McGibbon, Mr R.	English Nature (1997)	reedb	288944
<i>Oenanthe crocata</i>	Hemlock Water-dropwort		SY927885	SY98/16/0 7	Wareham Meadows (SMU 7)	28-May-87	Chamberlain, Mr A.P.	English Nature (1997)	reedb	289076
<i>Angelica sylvestris</i>	Wild Angelica		SY927885	SY98/16/0 7	Wareham Meadows (SMU 7)	28-May-87	Chamberlain, Mr A.P.	English Nature (1997)	reedb	289072
<i>Myosotis laxa</i>	Tufted Forget-me-not		SY927885	SY98/16/0 7	Wareham Meadows (SMU 7)	28-May-87	Chamberlain, Mr A.P.	English Nature (1997)	reedb	289071
<i>Lycopus europaeus</i>	Gipsywort		SY927885	SY98/16/0 7	Wareham Meadows (SMU 7)	28-May-87	Chamberlain, Mr A.P.	English Nature (1997)	reedb	289068
<i>Mentha aquatica</i>	Water Mint		SY927885	SY98/16/0 7	Wareham Meadows (SMU 7)	28-May-87	Chamberlain, Mr A.P.	English Nature (1997)	reedb	289063
<i>Galium palustre</i>	Common Marsh-bedstraw		SY927885	SY98/16/0 7	Wareham Meadows (SMU 7)	28-May-87	Chamberlain, Mr A.P.	English Nature (1997)	reedb	289077
<i>Cirsium palustre</i>	Marsh Thistle		SY927885	SY98/16/0 7	Wareham Meadows (SMU 7)	28-May-87	Chamberlain, Mr A.P.	English Nature (1997)	reedb	289070
<i>Alisma plantago-aquatica</i>	Water-plantain		SY927885	SY98/16/0 7	Wareham Meadows (SMU 7)	28-May-87	Chamberlain, Mr A.P.	English Nature (1997)	reedb	289078
<i>Juncus effusus</i>	Soft Rush		SY927885	SY98/16/0 7	Wareham Meadows (SMU 7)	10-Aug-84	McGibbon, Mr R.	English Nature (1997)	reedb	288943
<i>Carex ovalis</i>	Oval Sedge		SY927885	SY98/16/0 7	Wareham Meadows (SMU 7)	28-May-87	Chamberlain, Mr A.P.	English Nature (1997)	reedb	289066

Carex acutiformis	Lesser Pond-sedge		SY927885	SY98/16/07	Wareham Meadows (SMU 7)	28-May-87	Chamberlain, Mr A.P.	English Nature (1997)	reedb	289064
Carex riparia	Great Pond-sedge		SY927885	SY98/16/07	Wareham Meadows (SMU 7)	10-Aug-84	McGibbon, Mr R.	English Nature (1997)	reedb	288946
Carex riparia	Great Pond-sedge		SY927885	SY98/16/07	Wareham Meadows (SMU 7)	28-May-87	Chamberlain, Mr A.P.	English Nature (1997)	reedb	289065
Glyceria maxima	Reed Sweet-grass		SY927885	SY98/16/07	Wareham Meadows (SMU 7)	10-Aug-84	McGibbon, Mr R.	English Nature (1997)	reedb	288942
Glyceria maxima	Reed Sweet-grass		SY927885	SY98/16/07	Wareham Meadows (SMU 7)	28-May-87	Chamberlain, Mr A.P.	English Nature (1997)	reedb	289075
Molinia caerulea	Purple Moor-grass		SY927885	SY98/16/07	Wareham Meadows (SMU 7)	10-Aug-84	McGibbon, Mr R.	English Nature (1997)	reedb	288949
Iris pseudacorus	Yellow Iris		SY927885	SY98/16/07	Wareham Meadows (SMU 7)	10-Aug-84	McGibbon, Mr R.	English Nature (1997)	reedb	288945
Anthocharis cardamines	Orange Tip		SY927885	SY98/16/07	Wareham Meadows (SMU 7)	28-May-87	Chamberlain, Mr A.P.	English Nature (1997)	reedb	289073
Sphagnum auriculatum	a bog moss		SY927886	SY98/16/08	Wareham Meadows (SMU 8)	21-May-84	McGibbon, Mr R.	English Nature (1997)	reedb	289096
Sphagnum recurvum	a bog moss		SY927886	SY98/16/08	Wareham Meadows (SMU 8)	21-May-84	McGibbon, Mr R.	English Nature (1997)	reedb	289095
Aulacomnium palustre	a moss	DN	SY927886	SY98/16/08	Wareham Meadows (SMU 8)	21-May-84	McGibbon, Mr R.	English Nature (1997)	reedb	289097
Pteridium aquilinum	Bracken		SY927886	SY98/16/08	Wareham Meadows (SMU 8)	21-May-84	McGibbon, Mr R.	English Nature (1997)	reedb	289083
Caltha palustris	Marsh Marigold		SY927886	SY98/16/08	Wareham Meadows (SMU 8)	21-May-84	McGibbon, Mr R.	English Nature (1997)	reedb	289100
Thalictrum flavum	Common Meadow-rue	DN	SY927886	SY98/16/08	Wareham Meadows (SMU 8)	21-May-84	McGibbon, Mr R.	English Nature (1997)	reedb	289109
Myrica gale	Bog Myrtle	DN	SY927886	SY98/16/08	Wareham Meadows (SMU 8)	21-May-84	McGibbon, Mr R.	English Nature (1997)	reedb	289091
Salix sp.	a willow		SY927886	SY98/16/08	Wareham Meadows (SMU 8)	21-May-84	McGibbon, Mr R.	English Nature (1997)	reedb	289093
Calluna vulgaris	Heather		SY927886	SY98/16/08	Wareham Meadows (SMU 8)	21-May-84	McGibbon, Mr R.	English Nature (1997)	reedb	289086
Erica tetralix	Cross-leaved Heath		SY927886	SY98/16/08	Wareham Meadows (SMU 8)	21-May-84	McGibbon, Mr R.	English Nature (1997)	reedb	289085
Lysimachia vulgaris	Yellow Loosestrife	DN	SY927886	SY98/16/08	Wareham Meadows (SMU 8)	21-May-84	McGibbon, Mr R.	English Nature (1997)	reedb	289105
Filipendula ulmaria	Meadow-weed		SY927886	SY98/16/08	Wareham Meadows (SMU 8)	21-May-84	McGibbon, Mr R.	English Nature (1997)	reedb	289099
Sanguisorba officinalis	Great Burnet	DN	SY927886	SY98/16/08	Wareham Meadows (SMU 8)	21-May-84	McGibbon, Mr R.	English Nature (1997)	reedb	289108
Lotus pedunculatus	Large Bird's-foot-trefoil	DN	SY927886	SY98/16/08	Wareham Meadows (SMU 8)	21-May-84	McGibbon, Mr R.	English Nature (1997)	reedb	289112
Ulex europaeus	Gorse		SY927886	SY98/16/08	Wareham Meadows (SMU 8)	21-May-84	McGibbon, Mr R.	English Nature (1997)	reedb	289082
Epilobium hirsutum	Great Willowherb		SY927886	SY98/16/08	Wareham Meadows (SMU 8)	21-May-84	McGibbon, Mr R.	English Nature (1997)	reedb	289104
Oenanthe crocata	Hemlock Water-dropwort		SY927886	SY98/16/08	Wareham Meadows (SMU 8)	21-May-84	McGibbon, Mr R.	English Nature (1997)	reedb	289111
Symphytum officinale	Common Comfrey		SY927886	SY98/16/08	Wareham Meadows (SMU 8)	21-May-84	McGibbon, Mr R.	English Nature (1997)	reedb	289106
Mentha	Water		SY927886	SY98/16/08	Wareham Meadows (SMU 8)	21-May-84	McGibbon, Mr R.	English Nature (1997)	reedb	289101

aquatica	Mint		8	Meadows (SMU 8)	84	Mr R.	Nature (1997)		
Lonicera periclymenum	Honeysuckle		8	Wareham Meadows (SMU 8)	21-May-84	McGibbon, Mr R.	English Nature (1997)	reedb	289087
Valeriana officinalis	Common Valerian		8	Wareham Meadows (SMU 8)	21-May-84	McGibbon, Mr R.	English Nature (1997)	reedb	289107
Cirsium palustre	Marsh Thistle		8	Wareham Meadows (SMU 8)	21-May-84	McGibbon, Mr R.	English Nature (1997)	reedb	289110
Juncus effusus	Soft Rush		8	Wareham Meadows (SMU 8)	21-May-84	McGibbon, Mr R.	English Nature (1997)	reedb	289098
Luzula campestris	Field Wood-rush		8	Wareham Meadows (SMU 8)	21-May-84	McGibbon, Mr R.	English Nature (1997)	reedb	289114
Schoenus nigricans	Black Bog-rush	DN	8	Wareham Meadows (SMU 8)	21-May-84	McGibbon, Mr R.	English Nature (1997)	reedb	289090
Carex acutiformis	Lesser Pond-sedge		8	Wareham Meadows (SMU 8)	21-May-84	McGibbon, Mr R.	English Nature (1997)	reedb	289103
Carex riparia	Great Pond-sedge		8	Wareham Meadows (SMU 8)	21-May-84	McGibbon, Mr R.	English Nature (1997)	reedb	289102
Poa trivialis	Rough Meadow-grass		8	Wareham Meadows (SMU 8)	21-May-84	McGibbon, Mr R.	English Nature (1997)	reedb	289113
Molinia caerulea	Purple Moor-grass		8	Wareham Meadows (SMU 8)	21-May-84	McGibbon, Mr R.	English Nature (1997)	reedb	289084
Phragmites australis	Common Reed		8	Wareham Meadows (SMU 8)	21-May-84	McGibbon, Mr R.	English Nature (1997)	reedb	289089
Cettia cetti	Cetti's Warbler	AMBER	8	Wareham Meadows (SMU 8)	21-May-84	McGibbon, Mr R.	English Nature (1997)	reedb	289092
Emberiza schoeniclus	Reed Bunting	RED	8	Wareham Meadows (SMU 8)	21-May-84	McGibbon, Mr R.	English Nature (1997)	reedb	289094
Meles meles	Badger		8	Wareham Meadows (SMU 8)	21-May-84	McGibbon, Mr R.	English Nature (1997)	reedb	289088
Sphagnum rubellum	a bog moss	DN	9	Wareham Meadows (SMU 9)	21-May-84	McGibbon, Mr R.	English Nature (1997)	saltm/reed b/other	289154
Sphagnum compactum	a bog moss		9	Wareham Meadows (SMU 9)	21-May-84	McGibbon, Mr R.	English Nature (1997)	saltm/reed b/other	289153
Pteridium aquilinum	Bracken		9	Wareham Meadows (SMU 9)	21-May-84	McGibbon, Mr R.	English Nature (1997)	saltm/reed b/other	289137
Pteridium aquilinum	Bracken		9	Wareham Meadows (SMU 9)	21-May-84	McGibbon, Mr R.	English Nature (1997)	saltm/reed b/other	289140
Pteridium aquilinum	Bracken		9	Wareham Meadows (SMU 9)	21-May-84	McGibbon, Mr R.	English Nature (1997)	saltm/reed b/other	289124
Myrica gale	Bog Myrtle	DN	9	Wareham Meadows (SMU 9)	21-May-84	McGibbon, Mr R.	English Nature (1997)	saltm/reed b/other	289145
Fagus sylvatica	Beech		9	Wareham Meadows (SMU 9)	21-May-84	McGibbon, Mr R.	English Nature (1997)	saltm/reed b/other	289118
Quercus sp.	an oak		9	Wareham Meadows (SMU 9)	21-May-84	McGibbon, Mr R.	English Nature (1997)	saltm/reed b/other	289117
Betula sp.	a birch		9	Wareham Meadows (SMU 9)	21-May-84	McGibbon, Mr R.	English Nature (1997)	saltm/reed b/other	289120
Alnus glutinosa	Alder		9	Wareham Meadows (SMU 9)	21-May-84	McGibbon, Mr R.	English Nature (1997)	saltm/reed b/other	289133
Corylus avellana	Hazel		9	Wareham Meadows (SMU 9)	21-May-84	McGibbon, Mr R.	English Nature (1997)	saltm/reed b/other	289121
Stellaria holostea	Greater Stitchwort		9	Wareham Meadows (SMU 9)	21-May-84	McGibbon, Mr R.	English Nature (1997)	saltm/reed b/other	289126

Populus alba	White Poplar		SY933887	SY98/16/09	Wareham Meadows (SMU 9)	21-May-84	McGibbon, Mr R.	English Nature (1997)	saltm/reed b/other	289134
Rhododendron ponticum	Rhododendron		SY933887	SY98/16/09	Wareham Meadows (SMU 9)	21-May-84	McGibbon, Mr R.	English Nature (1997)	saltm/reed b/other	289128
Calluna vulgaris	Heather		SY931887	SY98/16/09	Wareham Meadows (SMU 9)	21-May-84	McGibbon, Mr R.	English Nature (1997)	saltm/reed b/other	289136
Calluna vulgaris	Heather		SY931887	SY98/16/09	Wareham Meadows (SMU 9)	21-May-84	McGibbon, Mr R.	English Nature (1997)	saltm/reed b/other	289150
Erica tetralix	Cross-leaved Heath		SY931887	SY98/16/09	Wareham Meadows (SMU 9)	21-May-84	McGibbon, Mr R.	English Nature (1997)	saltm/reed b/other	289146
Primula vulgaris	Primrose		SY933887	SY98/16/09	Wareham Meadows (SMU 9)	21-May-84	McGibbon, Mr R.	English Nature (1997)	saltm/reed b/other	289127
Rubus fruticosus agg.	Bramble		SY933887	SY98/16/09	Wareham Meadows (SMU 9)	21-May-84	McGibbon, Mr R.	English Nature (1997)	saltm/reed b/other	289123
Potentilla erecta	Tormentil	DN	SY931887	SY98/16/09	Wareham Meadows (SMU 9)	21-May-84	McGibbon, Mr R.	English Nature (1997)	saltm/reed b/other	289151
Sorbus aucuparia	Rowan		SY933887	SY98/16/09	Wareham Meadows (SMU 9)	21-May-84	McGibbon, Mr R.	English Nature (1997)	saltm/reed b/other	289119
Vicia sativa	Common Vetch		SY935884	SY98/16/09	Wareham Meadows (SMU 9)	21-May-84	McGibbon, Mr R.	English Nature (1997)	saltm/reed b/other	289161
Ulex europaeus	Gorse		SY931887	SY98/16/09	Wareham Meadows (SMU 9)	21-May-84	McGibbon, Mr R.	English Nature (1997)	saltm/reed b/other	289138
Ilex aquifolium	Holly		SY933887	SY98/16/09	Wareham Meadows (SMU 9)	21-May-84	McGibbon, Mr R.	English Nature (1997)	saltm/reed b/other	289122
Polygala serpyllifolia	Heath Milkwort	DN	SY931887	SY98/16/09	Wareham Meadows (SMU 9)	21-May-84	McGibbon, Mr R.	English Nature (1997)	saltm/reed b/other	289152
Oenanthe crocata	Hemlock Water-dropwort		SY933887	SY98/16/09	Wareham Meadows (SMU 9)	21-May-84	McGibbon, Mr R.	English Nature (1997)	saltm/reed b/other	289130
Plantago lanceolata	Ribwort Plantain		SY935884	SY98/16/09	Wareham Meadows (SMU 9)	21-May-84	McGibbon, Mr R.	English Nature (1997)	saltm/reed b/other	289158
Pedicularis sylvatica	Lousewort	DN	SY931887	SY98/16/09	Wareham Meadows (SMU 9)	21-May-84	McGibbon, Mr R.	English Nature (1997)	saltm/reed b/other	289149
Hypochaeris radicata	Cal's-ear		SY935884	SY98/16/09	Wareham Meadows (SMU 9)	21-May-84	McGibbon, Mr R.	English Nature (1997)	saltm/reed b/other	289159
Potamogeton sp.	a pondweed		SY938883	SY98/16/09	Wareham Meadows (SMU 9)	21-May-84	McGibbon, Mr R.	English Nature (1997)	saltm/reed b/other	289164
Juncus bufonius sens.str.	Toad Rush		SY931887	SY98/16/09	Wareham Meadows (SMU 9)	21-May-84	McGibbon, Mr R.	English Nature (1997)	saltm/reed b/other	289144
Eriophorum angustifolium	Common Cottongrass	DN	SY931887	SY98/16/09	Wareham Meadows (SMU 9)	21-May-84	McGibbon, Mr R.	English Nature (1997)	saltm/reed b/other	289148
Trichoporum cespitosum	Deergrass	DN	SY931887	SY98/16/09	Wareham Meadows (SMU 9)	21-May-84	McGibbon, Mr R.	English Nature (1997)	saltm/reed b/other	289143
Schoenoplectus lacustris	Common Club-rush		SY938883	SY98/16/09	Wareham Meadows (SMU 9)	21-May-84	McGibbon, Mr R.	English Nature (1997)	saltm/reed b/other	289163
Carex riparia	Great Pond-sedge		SY933887	SY98/16/09	Wareham Meadows (SMU 9)	21-May-84	McGibbon, Mr R.	English Nature (1997)	saltm/reed b/other	289131
Festuca rubra sens.str.	Red Fescue		SY935884	SY98/16/09	Wareham Meadows (SMU 9)	21-May-84	McGibbon, Mr R.	English Nature (1997)	saltm/reed b/other	289156
Poa pratensis sens.str.	Smooth Meadow-grass		SY935884	SY98/16/09	Wareham Meadows (SMU 9)	21-May-84	McGibbon, Mr R.	English Nature (1997)	saltm/reed b/other	289160
Glyceria maxima	Reed Sweet-grass		SY933887	SY98/16/09	Wareham Meadows (SMU 9)	21-May-84	McGibbon, Mr R.	English Nature (1997)	saltm/reed b/other	289132
Holcus	Yorkshire-		SY931887	SY98/16/09	Wareham Meadows (SMU 9)	21-May-84	McGibbon, Mr R.	English Nature (1997)	saltm/reed b/other	289139

lanatus	fog		9	Meadows (SMU 9)	84	, Mr R.	Nature (1997)	b/other	
Holcus lanatus	Yorkshire-fog		SY935884	SY98/16/0	Wareham Meadows (SMU 9)	21-May-84	McGibbon, Mr R.	English Nature (1997)	saltn/reed b/other 289157
Holcus lanatus	Yorkshire-fog		SY938883	SY98/16/0	Wareham Meadows (SMU 9)	21-May-84	McGibbon, Mr R.	English Nature (1997)	saltn/reed b/other 289166
Agrostis sp.	a bent-grass		SY935884	SY98/16/0	Wareham Meadows (SMU 9)	21-May-84	McGibbon, Mr R.	English Nature (1997)	saltn/reed b/other 289155
Agrostis sp.	a bent-grass		SY938883	SY98/16/0	Wareham Meadows (SMU 9)	21-May-84	McGibbon, Mr R.	English Nature (1997)	saltn/reed b/other 289165
Molinia caerulea	Purple Moor-grass		SY931887	SY98/16/0	Wareham Meadows (SMU 9)	21-May-84	McGibbon, Mr R.	English Nature (1997)	saltn/reed b/other 289142
Phragmites australis	Common Reed		SY930885	SY98/16/0	Wareham Meadows (SMU 9)	21-May-84	McGibbon, Mr R.	English Nature (1997)	saltn/reed b/other 289115
Phragmites australis	Common Reed		SY938883	SY98/16/0	Wareham Meadows (SMU 9)	21-May-84	McGibbon, Mr R.	English Nature (1997)	saltn/reed b/other 289162
Narthecium ossifragum	Bog Asphodel	DN	SY931887	SY98/16/0	Wareham Meadows (SMU 9)	21-May-84	McGibbon, Mr R.	English Nature (1997)	saltn/reed b/other 289147
Hyacinthoides non-scripta	Bluebell		SY931887	SY98/16/0	Wareham Meadows (SMU 9)	21-May-84	McGibbon, Mr R.	English Nature (1997)	saltn/reed b/other 289141
Hyacinthoides non-scripta	Bluebell		SY933887	SY98/16/0	Wareham Meadows (SMU 9)	21-May-84	McGibbon, Mr R.	English Nature (1997)	saltn/reed b/other 289125
Iris pseudacorus	Yellow Iris		SY933887	SY98/16/0	Wareham Meadows (SMU 9)	21-May-84	McGibbon, Mr R.	English Nature (1997)	saltn/reed b/other 289129
Melanostoma mellinum	a hoverfly		SY9388	SY98/16/0	Wareham Meadows (SMU 9)	23-Jul-94	Parker, Mr M.J.	saltn/reed b/other	188226
Platycheirus clypeatus agg.	a hoverfly		SY9388	SY98/16/0	Wareham Meadows (SMU 9)	23-Jul-94	Parker, Mr M.J.	saltn/reed b/other	400711
Metasyrphus latifasciatus	a hoverfly	Local	SY9388	SY98/16/0	Wareham Meadows (SMU 9)	23-Jul-94	Parker, Mr M.J.	saltn/reed b/other	185723
Eupeodes luniger	a hoverfly		SY9388	SY98/16/0	Wareham Meadows (SMU 9)	23-Jul-94	Parker, Mr M.J.	saltn/reed b/other	186441
Sphaerophoria scripta	a hoverfly		SY9388	SY98/16/0	Wareham Meadows (SMU 9)	27-Jul-94	Parker, Mr M.J.	saltn/reed b/other	190679
Syrphus vitripennis	a hoverfly		SY9388	SY98/16/0	Wareham Meadows (SMU 9)	23-Jul-94	Parker, Mr M.J.	saltn/reed b/other	401032
Neoascia tenur	a hoverfly	Local	SY9388	SY98/16/0	Wareham Meadows (SMU 9)	23-Jul-94	Parker, Mr M.J.	saltn/reed b/other	190329
Eristalinus sepulchralis	a hoverfly	Local	SY9388	SY98/16/0	Wareham Meadows (SMU 9)	23-Jul-94	Parker, Mr M.J.	saltn/reed b/other	185095
Cettia cetti	Cetti's Warbler	AMBER	SY933887	SY98/16/0	Wareham Meadows (SMU 9)	21-May-84	McGibbon, Mr R.	English Nature (1997)	saltn/reed b/other 289135
Acrocephalus scirpaceus	Reed Warbler		SY930885	SY98/16/0	Wareham Meadows (SMU 9)	21-May-84	McGibbon, Mr R.	English Nature (1997)	saltn/reed b/other 289116
Equisetum fluviatile	Water Horsetail		SY930883	SY98/16/10	Wareham Meadows (SMU 10)	12-Oct-84	McGibbon, Mr R.	English Nature (1997)	mud/saltn/reedb 288520
Equisetum arvense	Field Horsetail		SY937885	SY98/16/10	Wareham Meadows (SMU 10)	JUL 1987 - AUG 1987	Chamberlain, Mr A.P.	English Nature (1997)	mud/saltn/reedb 288700
Ranunculus acris	Meadow Buttercup		SY932883	SY98/16/10	Wareham Meadows (SMU 10)	12-Oct-84	McGibbon, Mr R.	English Nature (1997)	mud/saltn/reedb 288367
Ranunculus acris	Meadow Buttercup		SY936885	SY98/16/10	Wareham Meadows (SMU 10)	12-Oct-84	McGibbon, Mr R.	English Nature (1997)	mud/saltn/reedb 288352

Ranunculus acris	Meadow Buttercup		SY933885	SY98/16/10	Wareham Meadows (SMU 10)	JUL 1987 - AUG 1987	Chamberlain, Mr A.P.	English Nature (1997)	mud/saltm /reedb	288678
Ranunculus repens	Creeping Buttercup		SY936885	SY98/16/10	Wareham Meadows (SMU 10)	12-Oct-84	McGibbon, Mr R.	English Nature (1997)	mud/saltm /reedb	288353
Ranunculus repens	Creeping Buttercup		SY928881	SY98/16/10	Wareham Meadows (SMU 10)	JUL 1987 - AUG 1987	Chamberlain, Mr A.P.	English Nature (1997)	mud/saltm /reedb	288625
Ranunculus repens	Creeping Buttercup		SY929883	SY98/16/10	Wareham Meadows (SMU 10)	JUL 1987 - AUG 1987	Chamberlain, Mr A.P.	English Nature (1997)	mud/saltm /reedb	288646
Ranunculus repens	Creeping Buttercup		SY933883	SY98/16/10	Wareham Meadows (SMU 10)	JUL 1987 - AUG 1987	Chamberlain, Mr A.P.	English Nature (1997)	mud/saltm /reedb	288606
Ranunculus repens	Creeping Buttercup		SY939882	SY98/16/10	Wareham Meadows (SMU 10)	JUL 1987 - AUG 1987	Chamberlain, Mr A.P.	English Nature (1997)	mud/saltm /reedb	288531
Ranunculus flammula	Lesser Spearwort		SY929883	SY98/16/10	Wareham Meadows (SMU 10)	JUL 1987 - AUG 1987	Chamberlain, Mr A.P.	English Nature (1997)	mud/saltm /reedb	288649
Ranunculus flammula	Lesser Spearwort		SY933883	SY98/16/10	Wareham Meadows (SMU 10)	JUL 1987 - AUG 1987	Chamberlain, Mr A.P.	English Nature (1997)	mud/saltm /reedb	288605
Ranunculus flammula	Lesser Spearwort		SY937885	SY98/16/10	Wareham Meadows (SMU 10)	JUL 1987 - AUG 1987	Chamberlain, Mr A.P.	English Nature (1997)	mud/saltm /reedb	288709
Cettia cetti	Cetti's Warbler	AMBER	SY938886	SZ08/04/33	Poole Harbour (SMU 33)	21-May-84	McGibbon, Mr R.	English Nature (1997)	saltm/reedb	325741
Plantago maritima	Sea Plantain		SY948887	SZ08/04/32	Poole Harbour (SMU 32)	21-May-84	McGibbon, Mr R.	English Nature (1997)	mud/saltm /reedb	325571
Aster tripolium	Sea Aster	DN	SY948887	SZ08/04/32	Poole Harbour (SMU 32)	21-May-84	McGibbon, Mr R.	English Nature (1997)	mud/saltm /reedb	325572
Triglochin maritimum	Sea Arrowgrasses	DN	SY948887	SZ08/04/32	Poole Harbour (SMU 32)	21-May-84	McGibbon, Mr R.	English Nature (1997)	mud/saltm /reedb	325573
Juncus maritimus	Sea Rush		SY948887	SZ08/04/32	Poole Harbour (SMU 32)	21-May-84	McGibbon, Mr R.	English Nature (1997)	mud/saltm /reedb	325575
Bolboschoenus maritimus	Sea Club-rush	DN	SY943883	SZ08/04/32	Poole Harbour (SMU 32)	21-May-84	McGibbon, Mr R.	English Nature (1997)	mud/saltm /reedb	325566
Festuca rubra sens.str.	Red Fescue		SY942882	SZ08/04/32	Poole Harbour (SMU 32)	21-May-84	McGibbon, Mr R.	English Nature (1997)	mud/saltm /reedb	325562
Festuca rubra sens.str.	Red Fescue		SY948887	SZ08/04/32	Poole Harbour (SMU 32)	21-May-84	McGibbon, Mr R.	English Nature (1997)	mud/saltm /reedb	325574
Agrostis canina sens.str.	Brown Bent		SY942882	SZ08/04/32	Poole Harbour (SMU 32)	21-May-84	McGibbon, Mr R.	English Nature (1997)	mud/saltm /reedb	325563
Phragmites australis	Common Reed		SY943883	SZ08/04/32	Poole Harbour (SMU 32)	21-May-84	McGibbon, Mr R.	English Nature (1997)	mud/saltm /reedb	325565
Cygnus olor	Mute Swan		SY943883	SZ08/04/32	Poole Harbour (SMU 32)	21-May-84	McGibbon, Mr R.	English Nature (1997)	mud/saltm /reedb	325568
Tadorna tadorna	Shelduck	AMBER	SY943883	SZ08/04/32	Poole Harbour (SMU 32)	21-May-84	McGibbon, Mr R.	English Nature (1997)	mud/saltm /reedb	325567
Vanellus vanellus	Lapwing	AMBER	SY943883	SZ08/04/32	Poole Harbour (SMU 32)	21-May-84	McGibbon, Mr R.	English Nature (1997)	mud/saltm /reedb	325569
Actitis hypoleucos	Common Sandpiper		SY943883	SZ08/04/32	Poole Harbour (SMU 32)	21-May-84	McGibbon, Mr R.	English Nature (1997)	mud/saltm /reedb	325570
Larus ridibundus	Black-headed Gull		SY948887	SZ08/04/32	Poole Harbour (SMU 32)	21-May-84	McGibbon, Mr R.	English Nature (1997)	mud/saltm /reedb	325576
Acrocephalus scirpaceus	Reed Warbler		SY942882	SZ08/04/32	Poole Harbour (SMU 32)	21-May-84	McGibbon, Mr R.	English Nature (1997)	mud/saltm /reedb	325564
Sphagnum compactum	a bog moss		SY942892	SZ08/04/33	Poole Harbour (SMU 33)	21-May-84	McGibbon, Mr R.	English Nature (1997)	saltm/reedb	325752
Polytrichum	a hair-		SY944889	SZ08/04/33	Poole	21-May-	McGibbon, Mr R.	English Nature (1997)	saltm/reed	325709

m juniperinu m	moss		3	Harbour (SMU 33)	84	, Mr R.	Nature (1997)	b		
Ranuncul us acris	Meadow Buttercup		SY946892	SZ08/04/3 3	Poole Harbour (SMU 33)	21-May- 84	McGibbon , Mr R.	English Nature (1997)	saltm/reed b	325688
Quercus sp.	an oak		SY938886	SZ08/04/3 3	Poole Harbour (SMU 33)	21-May- 84	McGibbon , Mr R.	English Nature (1997)	saltm/reed b	325739
Salix cinerea	Grey Willow		SY938886	SZ08/04/3 3	Poole Harbour (SMU 33)	21-May- 84	McGibbon , Mr R.	English Nature (1997)	saltm/reed b	325737
Rubus fruticosus agg.	Bramble		SY944889	SZ08/04/3 3	Poole Harbour (SMU 33)	21-May- 84	McGibbon , Mr R.	English Nature (1997)	saltm/reed b	325711
Potentilla anserina	Silverwee d		SY946892	SZ08/04/3 3	Poole Harbour (SMU 33)	21-May- 84	McGibbon , Mr R.	English Nature (1997)	saltm/reed b	325696
Potentilla erecta	Tormentil	DN	SY942892	SZ08/04/3 3	Poole Harbour (SMU 33)	21-May- 84	McGibbon , Mr R.	English Nature (1997)	saltm/reed b	325750
Lotus corniculat us	Common Bird's- foot-trefoil	DN	SY941887	SZ08/04/3 3	Poole Harbour (SMU 33)	21-May- 84	McGibbon , Mr R.	English Nature (1997)	saltm/reed b	325727
Lotus corniculat us	Common Bird's- foot-trefoil	DN	SY942892	SZ08/04/3 3	Poole Harbour (SMU 33)	21-May- 84	McGibbon , Mr R.	English Nature (1997)	saltm/reed b	325748
Lotus corniculat us	Common Bird's- foot-trefoil	DN	SY946892	SZ08/04/3 3	Poole Harbour (SMU 33)	21-May- 84	McGibbon , Mr R.	English Nature (1997)	saltm/reed b	325691
Vicia sativa	Common Vetch		SY946892	SZ08/04/3 3	Poole Harbour (SMU 33)	21-May- 84	McGibbon , Mr R.	English Nature (1997)	saltm/reed b	325692
Medicago lupulina	Black Medick		SY944889	SZ08/04/3 3	Poole Harbour (SMU 33)	21-May- 84	McGibbon , Mr R.	English Nature (1997)	saltm/reed b	325707
Trifolium repens	White Clover		SY946892	SZ08/04/3 3	Poole Harbour (SMU 33)	21-May- 84	McGibbon , Mr R.	English Nature (1997)	saltm/reed b	325689
Trifolium pratense	Red Clover		SY946892	SZ08/04/3 3	Poole Harbour (SMU 33)	21-May- 84	McGibbon , Mr R.	English Nature (1997)	saltm/reed b	325690
Ulex europaeus	Gorse		SY938886	SZ08/04/3 3	Poole Harbour (SMU 33)	21-May- 84	McGibbon , Mr R.	English Nature (1997)	saltm/reed b	325740
Ulex europaeus	Gorse		SY941887	SZ08/04/3 3	Poole Harbour (SMU 33)	21-May- 84	McGibbon , Mr R.	English Nature (1997)	saltm/reed b	325730
Ulex europaeus	Gorse		SY942892	SZ08/04/3 3	Poole Harbour (SMU 33)	21-May- 84	McGibbon , Mr R.	English Nature (1997)	saltm/reed b	325743
Ulex europaeus	Gorse		SY944889	SZ08/04/3 3	Poole Harbour (SMU 33)	21-May- 84	McGibbon , Mr R.	English Nature (1997)	saltm/reed b	325710
Ulex europaeus	Gorse		SY946892	SZ08/04/3 3	Poole Harbour (SMU 33)	21-May- 84	McGibbon , Mr R.	English Nature (1997)	saltm/reed b	325700
Ilex aquifolium	Holly		SY938886	SZ08/04/3 3	Poole Harbour (SMU 33)	21-May- 84	McGibbon , Mr R.	English Nature (1997)	saltm/reed b	325738
Hydrocotyl e vulgaris	Marsh Pennywort	DN	SY942892	SZ08/04/3 3	Poole Harbour (SMU 33)	21-May- 84	McGibbon , Mr R.	English Nature (1997)	saltm/reed b	325755
Hydrocotyl e vulgaris	Marsh Pennywort	DN	SY944893	SZ08/04/3 3	Poole Harbour (SMU 33)	21-May- 84	McGibbon , Mr R.	English Nature (1997)	saltm/reed b	325757
Callitriche sp.	a water- starwort		SY942885	SZ08/04/3 3	Poole Harbour (SMU 33)	21-May- 84	McGibbon , Mr R.	English Nature (1997)	saltm/reed b	325734
Succisa pratensis	Devil's-bit Scabious	DN	SY941887	SZ08/04/3 3	Poole Harbour (SMU 33)	21-May- 84	McGibbon , Mr R.	English Nature (1997)	saltm/reed b	325729
Succisa pratensis	Devil's-bit Scabious	DN	SY942892	SZ08/04/3 3	Poole Harbour (SMU 33)	21-May- 84	McGibbon , Mr R.	English Nature (1997)	saltm/reed b	325747
Cirsium dissectum	Meadow Thistle	DN	SY944893	SZ08/04/3 3	Poole Harbour (SMU 33)	21-May- 84	McGibbon , Mr R.	English Nature (1997)	saltm/reed b	325756
Cirsium palustre	Marsh Thistle		SY941887	SZ08/04/3 3	Poole Harbour (SMU 33)	21-May- 84	McGibbon , Mr R.	English Nature (1997)	saltm/reed b	325726

<i>Cirsium palustre</i>	Marsh Thistle		SY946892	SZ08/04/3 3	Poole Harbour (SMU 33)	21-May-84	McGibbon, Mr R.	English Nature (1997)	saltm/reed b	325693
<i>Hypochaeris radicata</i>	Cat's-ear		SY944889	SZ08/04/3 3	Poole Harbour (SMU 33)	21-May-84	McGibbon, Mr R.	English Nature (1997)	saltm/reed b	325708
<i>Hypochaeris radicata</i>	Cat's-ear		SY946892	SZ08/04/3 3	Poole Harbour (SMU 33)	21-May-84	McGibbon, Mr R.	English Nature (1997)	saltm/reed b	325694
<i>Alisma plantago-aquatica</i>	Water-plantain		SY944889	SZ08/04/3 3	Poole Harbour (SMU 33)	21-May-84	McGibbon, Mr R.	English Nature (1997)	saltm/reed b	325705
<i>Alisma plantago-aquatica</i>	Water-plantain		SY947889	SZ08/04/3 3	Poole Harbour (SMU 33)	21-May-84	McGibbon, Mr R.	English Nature (1997)	saltm/reed b	325701
<i>Juncus maritimus</i>	Sea Rush		SY946892	SZ08/04/3 3	Poole Harbour (SMU 33)	21-May-84	McGibbon, Mr R.	English Nature (1997)	saltm/reed b	325684
<i>Juncus maritimus</i>	Sea Rush		SY946894	SZ08/04/3 3	Poole Harbour (SMU 33)	21-May-84	McGibbon, Mr R.	English Nature (1997)	saltm/reed b	325679
<i>Juncus effusus</i>	Soft Rush		SY938886	SZ08/04/3 3	Poole Harbour (SMU 33)	21-May-84	McGibbon, Mr R.	English Nature (1997)	saltm/reed b	325736
<i>Juncus effusus</i>	Soft Rush		SY941887	SZ08/04/3 3	Poole Harbour (SMU 33)	21-May-84	McGibbon, Mr R.	English Nature (1997)	saltm/reed b	325725
<i>Juncus effusus</i>	Soft Rush		SY942885	SZ08/04/3 3	Poole Harbour (SMU 33)	21-May-84	McGibbon, Mr R.	English Nature (1997)	saltm/reed b	325732
<i>Juncus effusus</i>	Soft Rush		SY946892	SZ08/04/3 3	Poole Harbour (SMU 33)	21-May-84	McGibbon, Mr R.	English Nature (1997)	saltm/reed b	325685
<i>Juncus effusus</i>	Soft Rush		SY946894	SZ08/04/3 3	Poole Harbour (SMU 33)	21-May-84	McGibbon, Mr R.	English Nature (1997)	saltm/reed b	325682
<i>Juncus effusus</i>	Soft Rush		SY947889	SZ08/04/3 3	Poole Harbour (SMU 33)	21-May-84	McGibbon, Mr R.	English Nature (1997)	saltm/reed b	325702
<i>Bolboschoenus maritimus</i>	Sea Club-rush	DN	SY947889	SZ08/04/3 3	Poole Harbour (SMU 33)	21-May-84	McGibbon, Mr R.	English Nature (1997)	saltm/reed b	325703
<i>Schoenoplectus lacustris</i>	Common Club-rush		SY947889	SZ08/04/3 3	Poole Harbour (SMU 33)	21-May-84	McGibbon, Mr R.	English Nature (1997)	saltm/reed b	325704
<i>Carex ovalis</i>	Oval Sedge		SY946892	SZ08/04/3 3	Poole Harbour (SMU 33)	21-May-84	McGibbon, Mr R.	English Nature (1997)	saltm/reed b	325697
<i>Carex echinata</i>	Star Sedge	DN	SY942892	SZ08/04/3 3	Poole Harbour (SMU 33)	21-May-84	McGibbon, Mr R.	English Nature (1997)	saltm/reed b	325754
<i>Carex riparia</i>	Great Pond-sedge		SY946894	SZ08/04/3 3	Poole Harbour (SMU 33)	21-May-84	McGibbon, Mr R.	English Nature (1997)	saltm/reed b	325681
<i>Carex flacca</i>	Glaucous Sedge		SY942892	SZ08/04/3 3	Poole Harbour (SMU 33)	21-May-84	McGibbon, Mr R.	English Nature (1997)	saltm/reed b	325746
<i>Carex flacca</i>	Glaucous Sedge		SY944893	SZ08/04/3 3	Poole Harbour (SMU 33)	21-May-84	McGibbon, Mr R.	English Nature (1997)	saltm/reed b	325758
<i>Carex panicea</i>	Carnation Sedge	DN	SY942892	SZ08/04/3 3	Poole Harbour (SMU 33)	21-May-84	McGibbon, Mr R.	English Nature (1997)	saltm/reed b	325753
<i>Carex nigra</i>	Common Sedge		SY944893	SZ08/04/3 3	Poole Harbour (SMU 33)	21-May-84	McGibbon, Mr R.	English Nature (1997)	saltm/reed b	325759
<i>Festuca rubra sens.str.</i>	Red Fescue		SY941887	SZ08/04/3 3	Poole Harbour (SMU 33)	21-May-84	McGibbon, Mr R.	English Nature (1997)	saltm/reed b	325724
<i>Festuca ovina sens.str.</i>	Sheep's Fescue		SY942892	SZ08/04/3 3	Poole Harbour (SMU 33)	21-May-84	McGibbon, Mr R.	English Nature (1997)	saltm/reed b	325749
<i>Poa pratensis sens.str.</i>	Smooth Meadow-grass		SY946892	SZ08/04/3 3	Poole Harbour (SMU 33)	21-May-84	McGibbon, Mr R.	English Nature (1997)	saltm/reed b	325695
<i>Glyceria fluitans</i>	Floating Sweet-grass		SY942885	SZ08/04/3 3	Poole Harbour (SMU 33)	21-May-84	McGibbon, Mr R.	English Nature (1997)	saltm/reed b	325733
<i>Glyceria fluitans</i>	Floating Sweet-grass		SY946892	SZ08/04/3 3	Poole Harbour (SMU 33)	21-May-84	McGibbon, Mr R.	English Nature (1997)	saltm/reed b	325698

<i>Holcus lanatus</i>	Yorkshire-fog		SY938886	SZ08/04/3 3	Poole Harbour (SMU 33)	21-May-84	McGibbon, Mr R.	English Nature (1997)	saltm/reed b	325735
<i>Holcus lanatus</i>	Yorkshire-fog		SY946892	SZ08/04/3 3	Poole Harbour (SMU 33)	21-May-84	McGibbon, Mr R.	English Nature (1997)	saltm/reed b	325687
<i>Aira praecox</i>	Early Hair-grass	DN	SY944889	SZ08/04/3 3	Poole Harbour (SMU 33)	21-May-84	McGibbon, Mr R.	English Nature (1997)	saltm/reed b	325706
<i>Anthoxanthum odoratum</i>	Sweet Vernal Grass		SY941887	SZ08/04/3 3	Poole Harbour (SMU 33)	21-May-84	McGibbon, Mr R.	English Nature (1997)	saltm/reed b	325728
<i>Anthoxanthum odoratum</i>	Sweet Vernal Grass		SY942892	SZ08/04/3 3	Poole Harbour (SMU 33)	21-May-84	McGibbon, Mr R.	English Nature (1997)	saltm/reed b	325751
<i>Agrostis sp.</i>	a bent-grass		SY941887	SZ08/04/3 3	Poole Harbour (SMU 33)	21-May-84	McGibbon, Mr R.	English Nature (1997)	saltm/reed b	325723
<i>Agrostis sp.</i>	a bent-grass		SY942892	SZ08/04/3 3	Poole Harbour (SMU 33)	21-May-84	McGibbon, Mr R.	English Nature (1997)	saltm/reed b	325744
<i>Agrostis stolonifera</i>	Creeping Bent		SY946892	SZ08/04/3 3	Poole Harbour (SMU 33)	21-May-84	McGibbon, Mr R.	English Nature (1997)	saltm/reed b	325686
<i>Alopecurus geniculatus</i>	Marsh Foxtail		SY946892	SZ08/04/3 3	Poole Harbour (SMU 33)	21-May-84	McGibbon, Mr R.	English Nature (1997)	saltm/reed b	325699
<i>Elytrigia atherica</i>	Sea Couch		SY946894	SZ08/04/3 3	Poole Harbour (SMU 33)	21-May-84	McGibbon, Mr R.	English Nature (1997)	saltm/reed b	325680
<i>Molinia caerulea</i>	Purple Moor-grass		SY942892	SZ08/04/3 3	Poole Harbour (SMU 33)	21-May-84	McGibbon, Mr R.	English Nature (1997)	saltm/reed b	325745
<i>Molinia caerulea</i>	Purple Moor-grass		SY944893	SZ08/04/3 3	Poole Harbour (SMU 33)	21-May-84	McGibbon, Mr R.	English Nature (1997)	saltm/reed b	325760
<i>Iris pseudacorus</i>	Yellow Iris		SY942885	SZ08/04/3 3	Poole Harbour (SMU 33)	21-May-84	McGibbon, Mr R.	English Nature (1997)	saltm/reed b	325731
<i>Coenagion puella</i>	Azure Damsel fly		SY938886	SZ08/04/3 3	Poole Harbour (SMU 33)	21-May-84	McGibbon, Mr R.	English Nature (1997)	saltm/reed b	325742
<i>Coenagion puella</i>	Azure Damsel fly		SY946894	SZ08/04/3 3	Poole Harbour (SMU 33)	21-May-84	McGibbon, Mr R.	English Nature (1997)	saltm/reed b	325683

REEDBED ASSESSMENT FORM

Site Keysworth A	Grid ref. (site/sample) SY934886	Owner/contact number Harry Clark
Recorder KC	Date: 25/10/00	

Size	<1ha	1-5ha	5-10ha	>10ha 17.3
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Adjacent land use	Arable	Pasture *	Woodland *	Heath * minor	Reed *	Saltmarsh	Carr *	Other Marsh *	Other River,
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Shape	Linear	Block *	Potential for expansion	See report	Amount or % gain
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% area of/ presence of	Poor reed	Good reed 90	Rush *	Saltmarsh	Scrub *	Pools/ditches *	Banks *	Other
------------------------	-----------	-----------------	--------	-----------	---------	-----------------	---------	-------

Water source	Fresh – river/stream	Fresh – groundwater	Saline – tidal	Saline with fresh *
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PH (fw)	6.65 SY93038849	Salinity	.7 to 2.7- central/east	Signs of	Deer *	Cattle *	Grazing
---------	--------------------	----------	----------------------------	----------	--------	----------	---------

Ditches	Not relevant	Not present	Not functioning	Functioning well *
Shuces	Not relevant	Not present	Not functioning *	Functioning well

Water flow	Not obvious	Through bed some	Through ditches/stream	Tidal *
------------	-------------	---------------------	------------------------	---------

Water level above litter cm.	5-10	No water
Leaf litter cm.	5-15	No significant litter

Scrub	0	0-10	10-50	More	Edge *	Scattered
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Species	Birch, oak, bog myrtle, sallow, alder
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REED CONDITION

Height	<1.5	1.5-2.5 *	>2.5 *
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Density m ²	<100 *	100-200	>200
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Flower spike %	75
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Stem diameter at butt	4-7
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Straightness	All curved	75:25	50:50	25:75 *	All straight
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Hardness (squeeze at butt end)	Hard *	Soft
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REEDBED ASSESSMENT FORM

Site Keyworth B	Grid ref. (site/sample) SY940884	Owner/contact number Harry Clark
Recorder KC	Date: 25/10/00	

Size	<1ha	1-5ha 1.4	5-10ha	>10ha
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Adjacent land use	Arable	Pasture *	Woodland	Heath	Reed	Saltmarsh *	Carr	Other Marsh	Other river
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Shape	Linear	Block *	Potential for expansion	No	Amount or % gain
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% area of presence of	Poor reed 10	Good reed 80	Rush *	Saltmarsh *	Scrub	Pools/ditches	banks	Other
-----------------------	-----------------	-----------------	-----------	----------------	-------	---------------	-------	-------

Water source	Fresh – river/stream	Fresh – groundwater	Saline – tidal *	Saline with fresh
--------------	----------------------	---------------------	---------------------	-------------------

PH (fv)	Salinity	* no water to test	Signs of	Deer *	Cattle	Grazing
---------	----------	--------------------	----------	-----------	--------	---------

Ditches	Not relevant *	Not present	Not functioning	Functioning well
Sluices	Not relevant *	Not present	Not functioning	Functioning well

Water flow	Not obvious	Through bed	Through ditches/stream	Tidal *
------------	-------------	-------------	------------------------	------------

Water level above litter cm.		No water *
Leaf litter cm.	5	No significant litter

Scrub	0	0-10	10-50	More	Edge	Scattered
Species						

REED CONDITION

Height	<1.5	1.5-2.5 1.5-2	>2.5
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Density m ²	<100 *	100-200	>200
------------------------	-----------	---------	------

Flower spike %	60
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Stem diameter at butt	4-5
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Straightness	All curved	75:25	50:50	25:75	All straight *
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Hardness (squeeze at butt end)	Hard *	Soft
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REEDBED ASSESSMENT FORM

Site Keysworth C - Bucks Cove	Grid ref. (site/sample) SY946885	Owner/contact number Harry Clark
Recorder KC	Date: 25/10/00	

Size	<1ha	1-5ha 3.54	5-10ha	>10ha
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Adjacent land use	Arable	Pasture *	Woodland	Heath	Reed	Saltmarsh *	Carr	Other Marsh	Other Harbour
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Shape	Linear	Block *	Potential for expansion	No	Amount or % gain
-------	--------	---------	-------------------------	----	------------------

% area of/ presence of	Poor reed 30	Good reed 60	Rush *	Saltmarsh *	Scrub	Pools/ditches *	banks	Other
------------------------	-----------------	-----------------	--------	-------------	-------	-----------------	-------	-------

Water source	Fresh - river/stream	Fresh - groundwater	Saline - tidal *	Saline with fresh
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PH (fw)	Salinity	3.5% seawater	Signs of	Deer *	Cattle	Grazing
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Ditches	Not relevant *	Not present	Not functioning	Functioning well
Sluices	Not relevant *	Not present	Not functioning	Functioning well

Water flow	Not obvious	Through bed	Through ditches/stream	Tidal *
------------	-------------	-------------	------------------------	---------

Water level above litter cm.	No water *
Leaf litter cm.	No significant litter

Scrub	0	0-10	10-50	More	Edge	Scattered
Species						

REED CONDITION

Height	<1.5	1.5-2.5 2m	>2.5
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Density m ²	<100	100-200 *	>200
------------------------	------	-----------	------

Flower spike %	60
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Stem diameter at butt	3-5
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Straightness	All curved	75:25	50:50	25:75	All straight *
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Hardness (squeeze at butt end)	Hard *	Soft
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REEDBED ASSESSMENT FORM

Site Keysworth D – Shag Looe	Grid ref. (site/sample) SY950896	Owner/contact number Harry Clark
Recorder KC	Date: 25/10	

Size	<1ha	1-5ha 2.03	5-10ha	>10ha
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Adjacent land use	Arable	Pasture	Woodland	Heath	Reed *	Saltmarsh *	Carr	Other Marsh	Other Harbour
-------------------	--------	---------	----------	-------	--------	-------------	------	-------------	---------------

Shape	Linear	Block *	Potential for expansion	No	Amount or % gain	
-------	--------	---------	-------------------------	----	------------------	--

% area of presence of	Poor reed 10	Good reed 80	Rush *	Saltmarsh *	Scrub	Pools/ditches	banks	Other inlets
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Water source	Fresh – river/stream	Fresh – groundwater	Saline – tidal *	Saline with fresh
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PH (fw)	Salinity	Saline but no water	Signs of	Deer *	Cattle	Grazing
---------	----------	---------------------	----------	--------	--------	---------

Ditches	Not relevant *	Not present	Not functioning	Functioning well	
Sluices	Not relevant *	Not present	Not functioning	Functioning well	

Water flow	Not obvious	Through bed	Through ditches/stream	Tidal * - low tide	
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Water level above litter cm.		No water *
Leaf litter cm.	10	No significant litter

Scrub	0	0-10	10-50	More	Edge	Scattered
Species						

REED CONDITION

Height	<1.5 1.3-1.5	1.5-2.5	>2.5
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Density m ²	<100	100-200 *	>200	
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Flower spike %	40
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Stem diameter at butt	3-4
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Straightness	All curved	75:25	50:50	25:75	All straight *
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Hardness (squeeze at butt end)	Hard *	Soft
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Keysworth Reedbeds JPGs



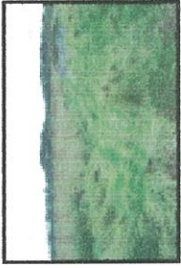
Keysworth - B and C.jpg



Keysworth A.jpg



Keysworth B and C closer



P0000779.JPG



P0000780.JPG



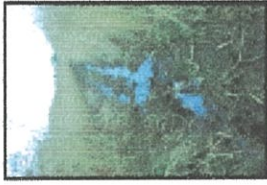
P0000781.JPG



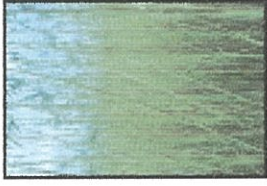
P0000782.JPG



P0000783.JPG



P0000784.JPG



P0000785.JPG



P0000786.JPG



P0000787.JPG



P0000788.JPG



P0000789.JPG



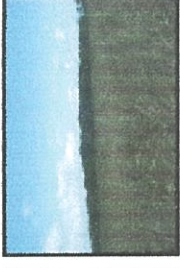
P0000790.JPG



P0000791.JPG



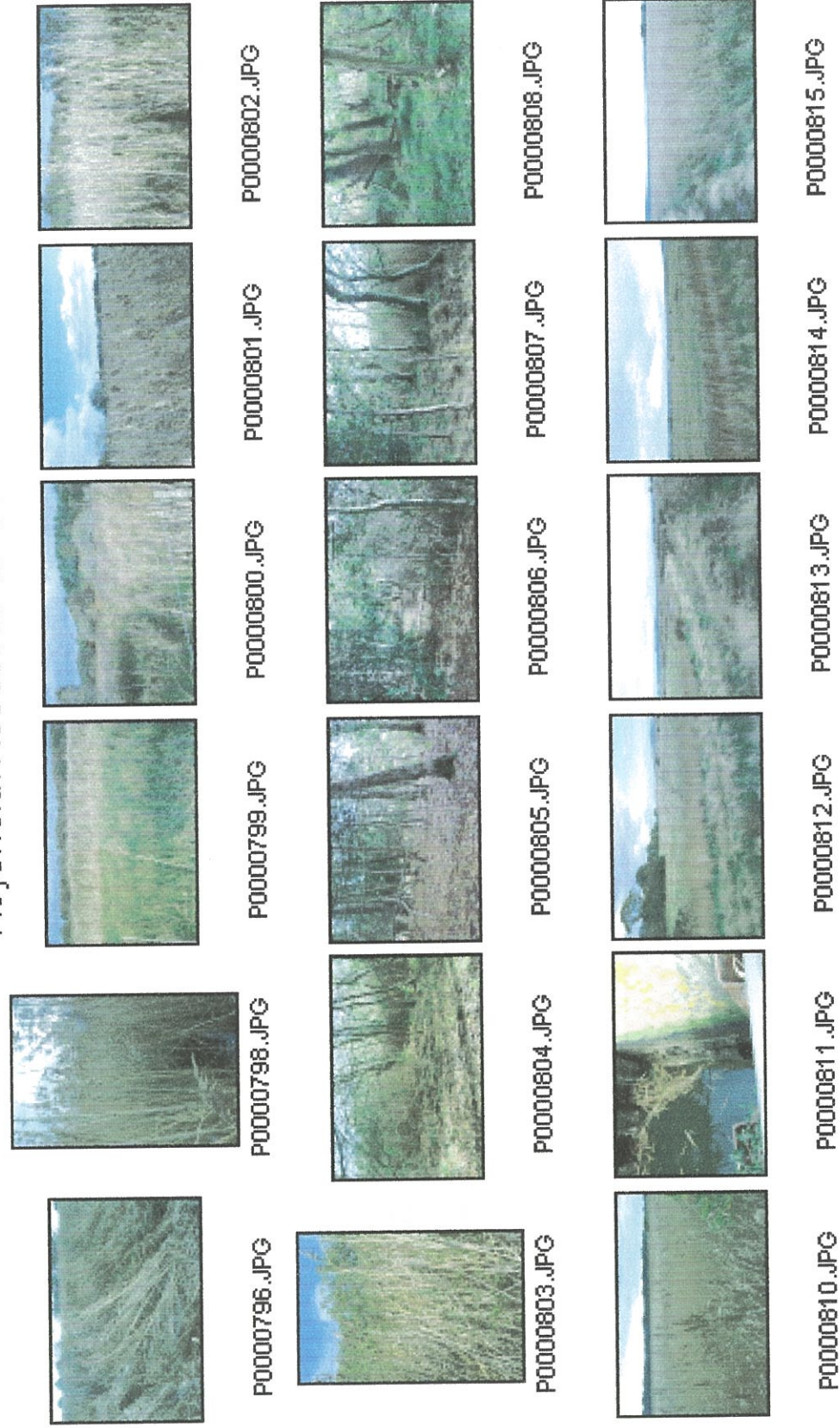
P0000792.JPG



P0000795.JPG

Name: Keysworth Reedbeds jpgs contact001.bmp
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Keysworth Reedbeds JPGs

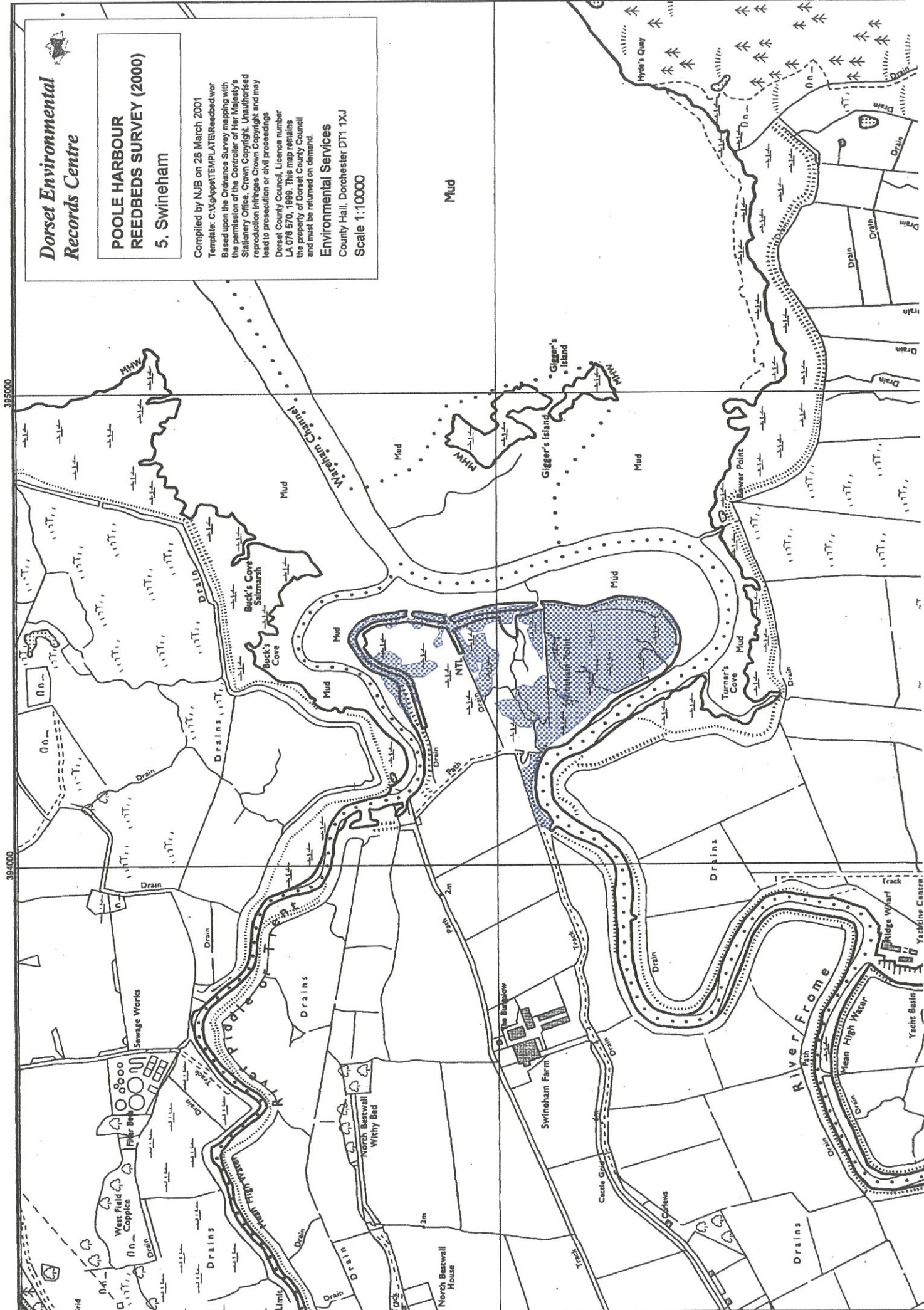


[2]

**Dorset Environmental
Records Centre**

**POOLE HARBOUR
REEBEDS SURVEY (2000)
5. Swineham**

Compiled by NJB on 28 March 2001
Template: C:\gpa\TEMP\PLATE\Reedbed.wor
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Scale 1:10000



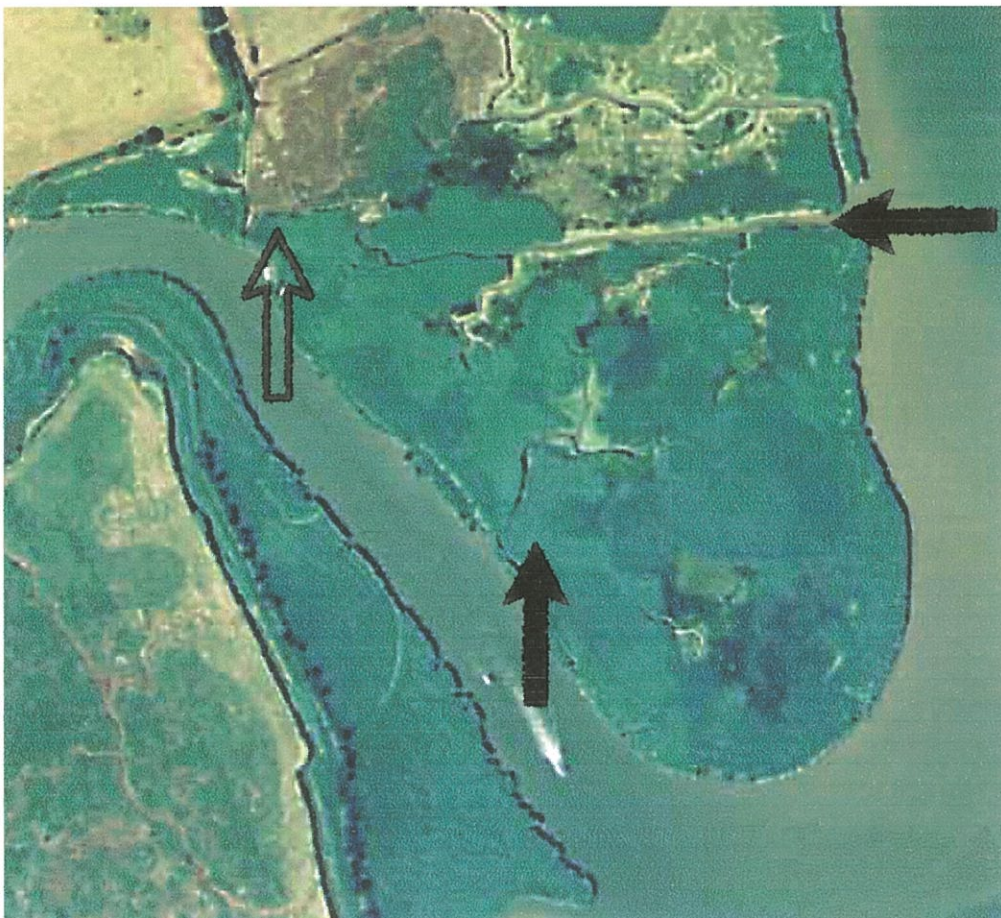
SWINEHAM POINT REEDBED



X marks the areas where the reedbed could be extended into



Path from Wareham



Tidal creeks



Drain from fields and access point

5. SWINEHAM POINT REEDBED

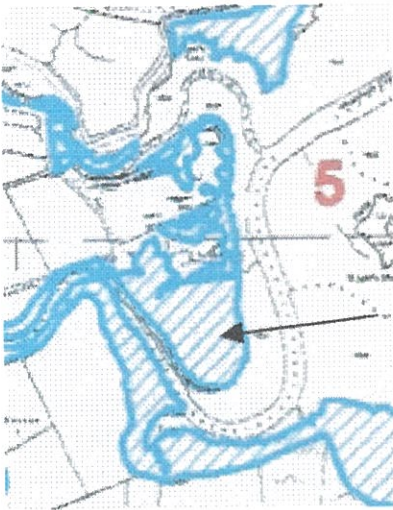
Grid ref. SY 944878
Survey date: 18/10/00

1. Summary

1.1 Table

Key features	Summary
Reedbed area	9.01 hectares
Hydrology	Saline, tidal
Condition	Very good
State	Stable
Adjacent to	Farmland (arable), tidal river, Harbour
Mgmt. Problems	Erosion
Notable sp.	BT, WR, CW (nearby), RW, Sn. MH
Current mgmt.	None
Expansion opportunities ?	Not within SPA – poss, upriver
Management opportunities ?	No

1.2 Quick Reference map



1.3 Key features

- Wholly influenced by seawater (16.5% seawater), tidal with regular total inundation
- Deeply incised creeks with areas of saltmarsh along the length or at their head
- Very uniform reedbed, no scrub
- Reed height up to 2.4 metres
- No significant deer grazing
- Possible areas for expansion further west and north, land purchase permitting
- Notable species present
- No water management practical or relevant.

2. Site Description

The whole of the reedbed is within the Poole Harbour SPA, SSSI and Ramsar boundaries

2.1 General

The reedbed occupies the whole of Swineham Point, joining a patchy linear reedbed to the north which follows the shore and a linear reedbed to the west which continues up the River Frome to Wareham. There are no manmade internal drainage ditches, the tide draining out by several creeks (see aerial photograph) though there is a drain in the north west corner which runs north-south and drains the nearby fields; this is not protected by a tidal flap so tidal water backs up. A bank extends down the western boundary for about 30% of its length being an extension of the riverbank which protects the land west of the site. The reedbed is of uniform good quality though with a few patches of curved reeds at the interface on its northern borders and patches of saltmarsh and grass grow along the creek edges. Reeds reduce dramatically in height in patches (see photo 588) presumably where there is a longer tidal coverage.

There appears to be erosion of the eastern harbour edge where posts which once marked the shoreline are now several metres from reedbed (photos 592,593)

2.2 Access

By private road eastwards (from the traffic lights at Wareham centre). There is a bridleway/footpath to the river bank. It is necessary to cross the drain to get into the reedbed. Though the bed itself is dry on low tides it is essential to wear waders to cross the creeks which are deep and dangerous and it is easy to not see them when walking through the bed.

3. Site History

Not known. There is no evidence of any attempts to reclaim this area. There is a sluice and ditch along the northwestern boundary. Along the Harbour edge in the east is a series of poles, possibly once designed to stop erosion; these are now several metres from the shore (photos 592 and 593)

4. Current Management

None evident

5. Survey Results

It was concluded that the reed cover and condition here is as good as can be expected. Being tidal there were no signs of water voles but the reed density should be adequate for reed warblers – bearded tits were noted during the survey. There are possibilities for expansion, ownership and levels permitting, into fields that were grazed or arable (see aerial photograph). The boundary of the reedbed as supplied by DERC are correct. Reeds are generally tall and of good quality with a few low areas especially where it floods regularly. The point has numerous creeks, visible on aerial photograph and saltmarsh grows around these where they reach into the reedbed. Erosion of the bed was evident at the edge of Poole Harbour. The whole bed is more or less fully tidal and has little leaf litter – there is no potential for management.

5.1 Photograph Record held on CD ROM (see attached contact sheet)

Photo Number P0000.....	Reedbed	Grid Reference	Direction taken	Notes
584	Swineham	9412 8793	N	Field with geese – possible extension ?
585		9412 8793	E	Edge of river Frome
586			N	N. of Swineham North Grassy field (tidal?) RB extension? some reed encroachment – restricted by grazing?
587				typical reed condition
588		9431 8784	W	change in reed height 2m>1m as move south

589				end of creek saltmarsh
590		9439 8781	SE 120	deep tidal inlet
591				general view of reedbed
592		9454 8783	N	edge of RB at harbour
593		9454 8783	S	edge of RB at harbour
594				Looking into RB up main tidal creek from eastern end
595				main tidal creek
596			N	Central part of main ditch looking towards Keyworth
597				Saltmarsh around main inlet where it snakes into RB
598				Field to NW of RB which could be converted to RB

5.2 Other references

Preliminary Survey of the Reedbeds around Poole Harbour (Price and Pickess) 1993
 Reedbed Survey 1996

6. Recommendations

- No management is needed or recommended
- The condition of the bed is monitored to check for degradation by deer etc.
- Options for managing surrounding land investigated. This could be for reedbed expansion or for creating scrub to encourage Cetti Warbler or other wetland strategies – Canada geese were noted on one of the arable fields. There could be opportunities for expanding grazing marsh rather than reedbed.
- **Monitoring** : wildlife should be surveyed to produce a comprehensive species list. Numbers of pairs of breeding birds should be counted and the use of the bed by wintering bearded tits, rails, chats and snipe (etc.) be monitored. It should be surveyed for insects.
- Update records at DERC where they are available

6. Species list

6.1 Species seen during survey

Bearded tit, Water Rail, 2 Snipe, Kestrel

Other records:

Steve Smith: Marsh Harrier female 20/2/95. Reed Warbler 30 migrants 18/8/95

Cetti's warbler surveys: See Introductory Reedbed Survey Report

REEDBED ASSESSMENT FORM

Site SWINEHAM	Grid ref. (site/sample) 9428 8785	Owner/contact number Peter Mole
Recorder K Cook Date: 18/10/00		

Size	<1ha	1-5ha	5-10ha 9 hectares	>10ha
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Adjacent land use	Arable *	Pasture *	Woodland	Heath	Reed *	Saltmarsh *	Carr	Other Marsh	Other River/harbour
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Shape	Linear	Block *	Potential for expansion	Yes	Amount or % gain	50 % +
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% area of presence of	Poor reed	Good reed 95	Rush	Saltmarsh 5	Scrub	Pools/ditches banks	Other
-----------------------	-----------	-----------------	------	----------------	-------	------------------------	-------

Water source	Fresh - river/stream	Fresh - groundwater	Saline - tidal *	Saline with fresh
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PH (fw)	Salinity	16.5 %	Signs of	Deer	Cattle	Grazing
---------	----------	--------	----------	------	--------	---------

Ditches	Not relevant *	Not present	Not functioning	Functioning well
Slances	Not relevant *	Not present	Not functioning	Functioning well

Water flow	Not obvious	Through bed	Through ditches/stream	Tidal *
Water level above litter cm.	No water			
Leaf litter cm.	6-10 cm	No significant litter		

Scrub	0 *	0-10	10-50	More	Edge	Scattered
Species						

REED CONDITION

Height	<1.5	1.5-2.5 * to 2.4	>2.5
Density m ²	<100	100-200 * 100	>200

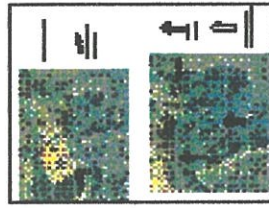
Flower spike %	20 %
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Stem diameter at butt	4-6 cm.
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Straightness	All curved	75:25	50:50	25:75 *	All straight
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Hardness (squeeze at butt end)	Hard *	Soft
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Swineham Point Reedbed JPGs



aerials.cdr



P0000584.JPG



P0000585.JPG



P0000586.JPG



P0000587.JPG



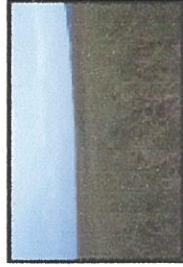
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P0000589.JPG



P0000590.JPG



P0000591.JPG



P0000592.JPG



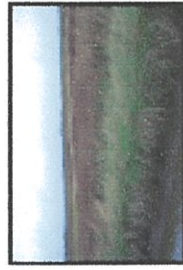
P0000593.JPG



P0000594.JPG



P0000595.JPG



P0000596.JPG



P0000597.JPG



P0000598.JPG



Swineham DCC.tif



Swineham DCC2.tif

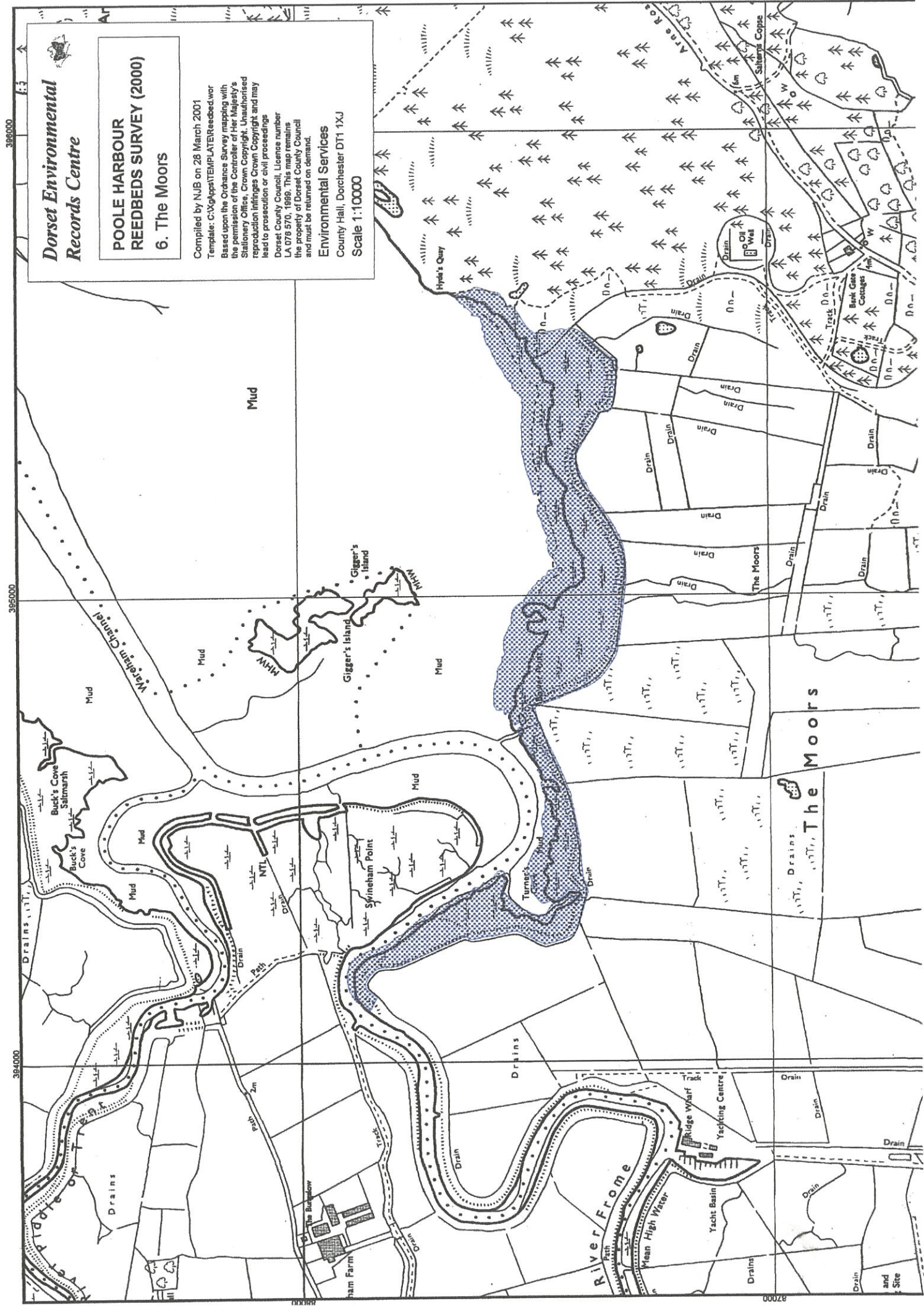
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**POOLE HARBOUR
REEDBEDS SURVEY (2000)
6. The Moors**

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6. THE MOORS

The Moors Reedbed

Grid ref.:SY953874

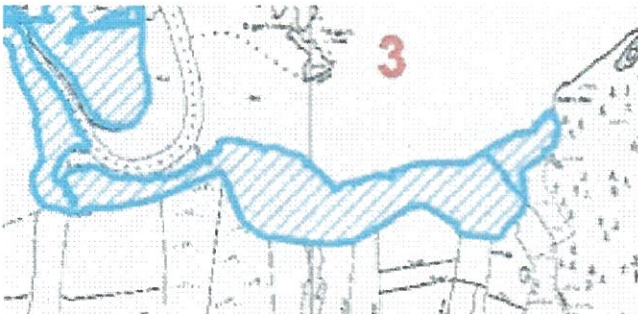
Survey date: 27/10/00 and 1/11/00

1. Summary

1.1 Table

Key features	Summary
Reedbed area (ha.)	22.53
Hydrology	Saline, tidal, some minor fw influence
Condition	Good
State	Stable
Adjacent to	Pasture, conifer wood nearby, Harbour
Mgmt. Problems	Minor deer damage
Notable sp.	BT, WR, CW, RW, Check
Current mgmt.	None – nearby reedbed creation scheme
Expansion opportunities ?	Yes
Management opportunities ?	Possible scrub encouragement at edge

1.2 Reference map



1.3 Key features

- Extensive continuous nature gives high potential for some key species
- Broad linear bed which links to nearby reedbeds up Wareham Channel and north to Swineham and Keyworth
- Virtually all affected by tide and salinity (1- 8.3% seawater on sites tested).
- Consistent reed quality though there are some obvious different height stands (generally 2-2.3 metre but down to 1 metre in places)
- Several notable bird species
- Some options for expansion of reedbed or other wetland habitat (wet grassland, scrapes)
- There is no scrub in the bed, nor signs of scrub encroachment though there are opportunities for scrub management for Cetti's warbler along the southern edge
- Considerable signs of deer (deep tracks) but deer grazing limited.
- Basic Management Plan written

2. Site Description

The whole of The Moors reedbed is within the Poole Harbour SPA, SSSI and Ramsar boundaries.

2.1 General

The bulk of The Moors reedbed is north of a sea wall bank with some extending south of the bank into the grazing pasture known as The Moors. This reedbed is not isolated, being part of a greater wetland system which includes the unimproved fields of The Moors and associated ditches and marshy areas and the reedbeds of the Wareham Channel

2.2 Access

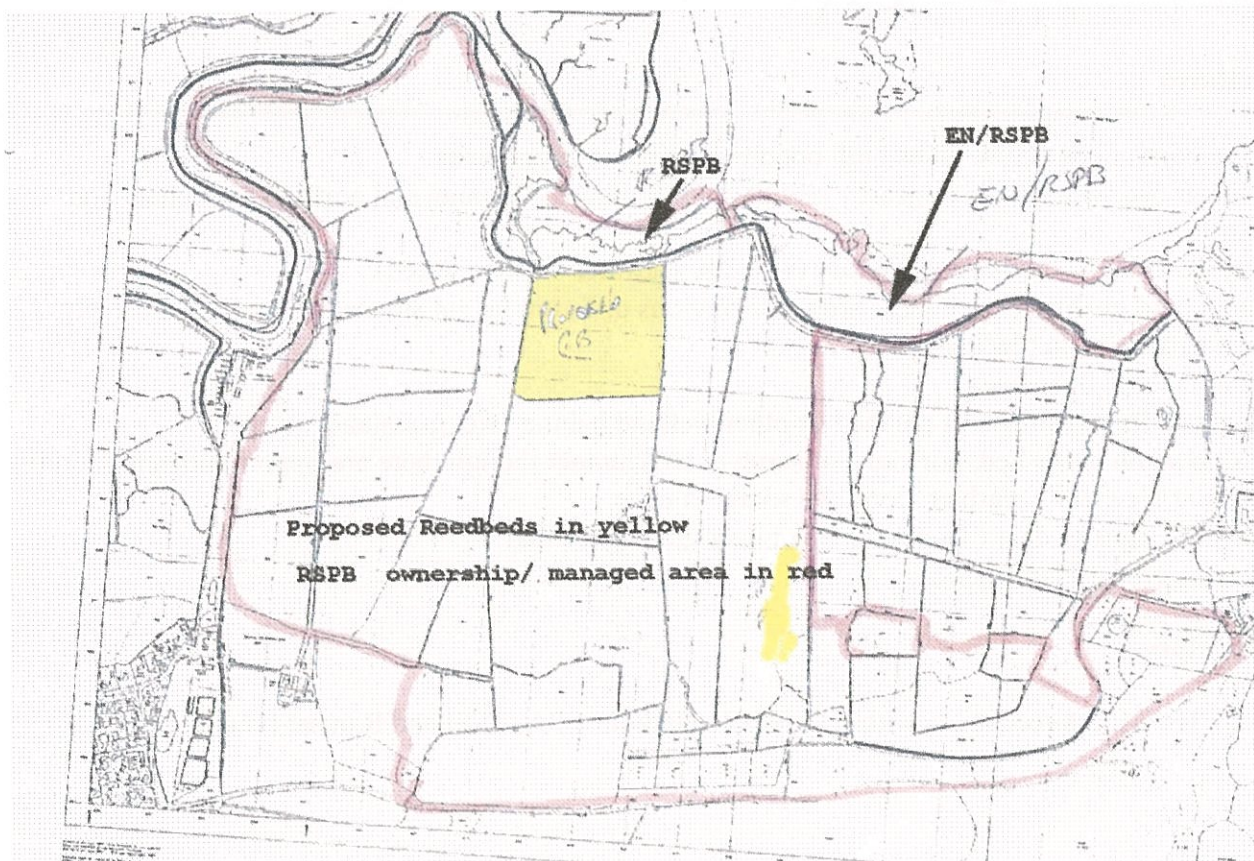
There are no public rights of way. Access for surveying was across The Moors pastures – it is possible to cross the inner ditch of the sea wall bank in the far east of the reedbed – this gives access to the bed and the bank. The Moors are quite difficult to get across because of the number of large ditches so prior knowledge is useful! Most of the bed is walkable but beware of deep water on high tide at the edge of the bed and occasional drains.

3. Site History

Sporadic commercial reed cutting until 1990. Past cutting and burning to provide a better quality crop. The artificial sea wall bank separates the bed from The Moors pasture – the current state was established by 1811.

4. Current Management

There is no management of the bed at the time of the survey. In the past here has been a policy of non-intervention by EN until more is understood about benefits of management. However there is work currently underway by RSPB to hold back water in an area of The Moors to create more reedbed (plan below). A corridor in the reeds suggests bird ringing occurs though no references to this have yet been made by contacts.



5. Survey Results

See DCC aerial photo 22-0321, 22-0322

5.1

The Moors reedbed is separated from the southern pasture by a high bank with a ditch on its southern (landward) side. Often the bank and ditch are reedcovered (photo 912). The broad reed covered ditch makes access into the bed difficult except at the eastern end where the ditch terminates. Here there is a strong flow of freshwater through areas of deep water and deer tracks into the bed – apart from this the bed is quite dry though is progressively wetter towards the edge of the Harbour. This fresh water has a small influence on the nature of the bed – there are freshwater plants such as marsh pennywort and bog myrtle in a localised area in the east at SY95568745.

On a rising tide/high tide at the time of the survey the edge was covered with about .75 metre of water. Where the bed meets the Harbour there is a rapid thinning of reed density and a shallow sloping edge that does not appear to be eroding (photos 896, 901, 903, 916).

There is no saltmarsh within this bed though there are some drier areas which contain grasses and lower denser reeds which tend to be deer damaged – the largest is shown in photo 915 at SY94868738. Such grassy areas may not support many reedbed specialists (probably water vole, water rail, snipe in the right reedbeds) but should support invertebrates such as coneheads (this should be looked into).

The bed is fairly uniform in reed quality (photos from east to west: 899, 904, 906, 922) although there are some distinctive lower areas of about 1 metre high reeds (photo. 910) recognised in the EN Management Plan as different genetic clones – a feature obvious in most large reedbeds. The thinnest of these may not be selected by say nesting reed warblers but there been no survey in these reedbeds (though there have been elsewhere in the country) to examine this.

There are several pools and other areas of open water in the bed. Deer tracks create some of these, some are associated with the bank (photo 907) and one in the west is connected to the Wareham channel by a ditch. At SY 94958735 there is open water with low reed. It is unclear how valuable such open water in tidal reedbeds is though some pools could occasionally hold eels and shrimps. Water rails presumably benefit from low water throughout the bed, though not if it is heavily tidal. Areas of water which are not always influenced by the tide may be useful to rails (and bitterns?) during normal high tide periods. This could be a good reason for looking at creating more open water in the areas which are not regularly inundated.

5.2 Photographic record held on CD ROM

Photo Number	Reedbed	Grid Reference	Direction taken	Notes
P0000.....				
880		95518733	W	Grazing marsh behind moors
881		95568743	W	View across Moors
885		95528755		Outlet channel to sea in east
886		95488734		Shallow pool near bank, some deer damage
896		95518760		Edge of reedbed at Harbour, high tide
899		95518756		Most of bed is dry until high tide (1metre). Reeds less than 100 per sq. metre at water's edge
901		95348754	E	Edge of bed
902		95348754	N	Looking at Keyworth
903		95348754	W	Edge of bed
904		95258742	E60	View of bed
905		95258742	NW330	From bank to Keyworth

906		95258742	NW300	From bank to Swineham
907				Holes, deer tracks and ditches near bank
909		95208740		Bird ringing corridor ?
910		95178740	N350	Change in reed height 2.2m on left to 1.5m on right
911		95108734	W250	From bank – good place to extend reedbed
912		95108734		Sea wall bank
913		94998731	E	Pools with light deer grazing
914		94958735	W	Open water
915		94868738	NW320	Grassy reedbed with short reeds >1metre
916		94748757	W260	Edge
917		94738753		Pool near channel white channel marker
918		94728752		Ditch behind sea wall, with drain which goes under bank to Harbour
920				Channel from river taken water from under bank and pool above
921		94638748	W230	Cattle graze grassland but not bed, some deer damage and lots of deer presence
922		94488743	NW330	Consistently dense reed (100-200), variable height, thin reeds (Swineham on right)
923		94268729	N350	
924		94278730	NE10	
925		94338735	NE70	From bridge over ditch to bank and reedbed creation area
926		94358735	E	Same –flooded ground- potential for reedbed
927		94358735	E	
928		94358735	E	
929		94378739	E	New banking to retain water

5.3 Other references

RSPB Reedbed file

Preliminary Survey of the Reedbeds around Poole Harbour (Price and Pickess) 1993

Reedbed Survey 1996

6. Recommendations

- Survey invertebrates – moths and e.g. Coneheads in grassy areas.
- Do Odonata use the freshwater lens in the east,? Would they benefit from reed cutting around some freshwater areas ? Do these freshwater areas become saline on high spring tides ?
- Research the benefits of more open water in tidal/saline reedbeds
- Cut corridors may be useful – thought to help reed warblers – look into this
- Examine tidal regime of bed to discover areas not covered by tide where some further open water may be created
- Talk to EA who are responsible for the management of the bank as to whether more patches of scrub can be planted for Cetti’s warbler. If not on the bank more scrub could be encouraged on the southern side of the bank and its ditch and stretching into the fields
- Encourage reed to grow in ditches of The Moors
- Make some strong access bridges across ditch to improve monitoring and management
- Monitor nesting birds for at least one season
- Produce species list specific to the reedbed habitat or produce a list which indicates where species were found more specifically
- Find more records (eg. Bird ringing)

7. Species List

7.1 Notable species recorded during survey : Bearded tit, water rail

7.2 RSPB

Anecdotal record from staff for about 6 pairs of bearded tit breeding in recent years

7.3 DERC records

20 A4 pages of DERC records exist for this area but these are mainly if not solely for the Moors and because of their bulk and unsorted nature are not going to be included see the CD ROM (TM DERC species.xls)

REEDBED ASSESSMENT FORM

Site The Moors	Grid ref. (site/sample) SY953874	Owner/contact number RSPB / (English Nature – owners)
Recorder K Cook	Date: 1/11/00	

Size	<1ha	1-5ha	5-10ha	>10ha 22.53
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Adjacent land use	Arable	Pasture +	Woodland +	Heath	Reed +	Saltmarsh	Carr	Other Marsh +	Other Harbour
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Shape	Linear	Block +	Potential for expansion	+	Amount or % gain	
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% area of/ presence of	Poor reed 5	Good reed 95	Rush	Saltmarsh	Scrub	Pools/ditches +	Banks Sea wall	Other
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Water source	Fresh – river/stream	Fresh – groundwater	Saline – tidal +	Saline with fresh + minor
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PH (fw)	5.11	Salinity	1-8.3	Signs of	Deer +	Cattle	Grazing
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Ditches	Not relevant	Not present	Not functioning	Functioning well +	
Sluices	Not relevant	Not present	Not functioning	Functioning well +	

Water flow	Not obvious	Through bed	Through ditches/stream	Tidal +	
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Water level above litter cm	NA	No water
Leaf litter cm	Variable 0-10cm	No significant litter

Scrub	0	0-10	10-50	More	Edge +	Scattered
Species	Gorse, bog myrtle					

REED CONDITION

Height	<1.5	1.5-2.5 +	>2.5
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Density m ²	<100	100-200 +	>200	
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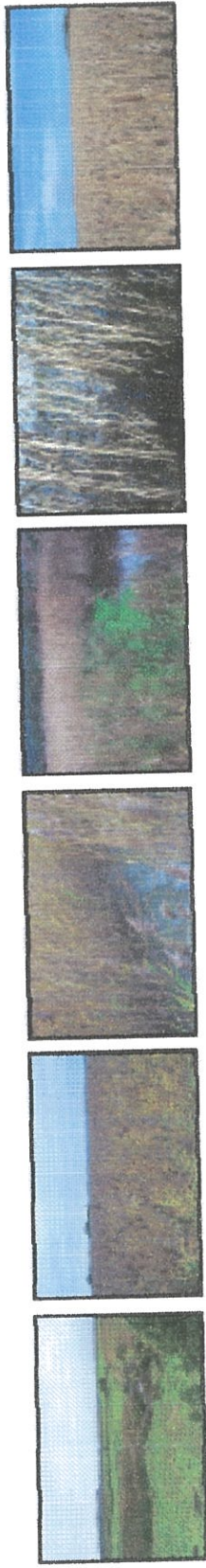
Flower spike %	50
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Stem diameter at butt	3-6 mm
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Straightness	All curved	75:25	50:50	25:75	All straight +
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Hardness (squeeze at butt end)	Hard +	Soft
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The Moors Reedbed JPGs



P0000880.JPG

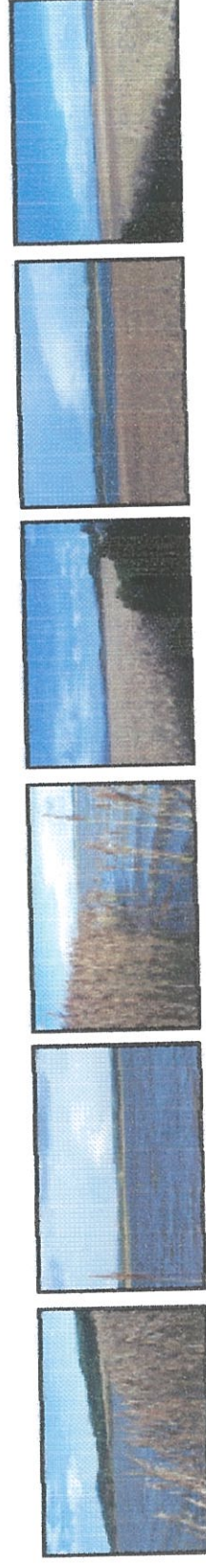
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P0000901.JPG

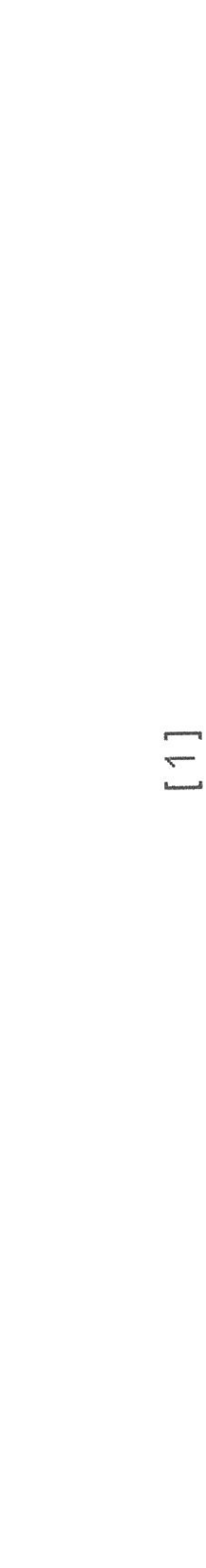
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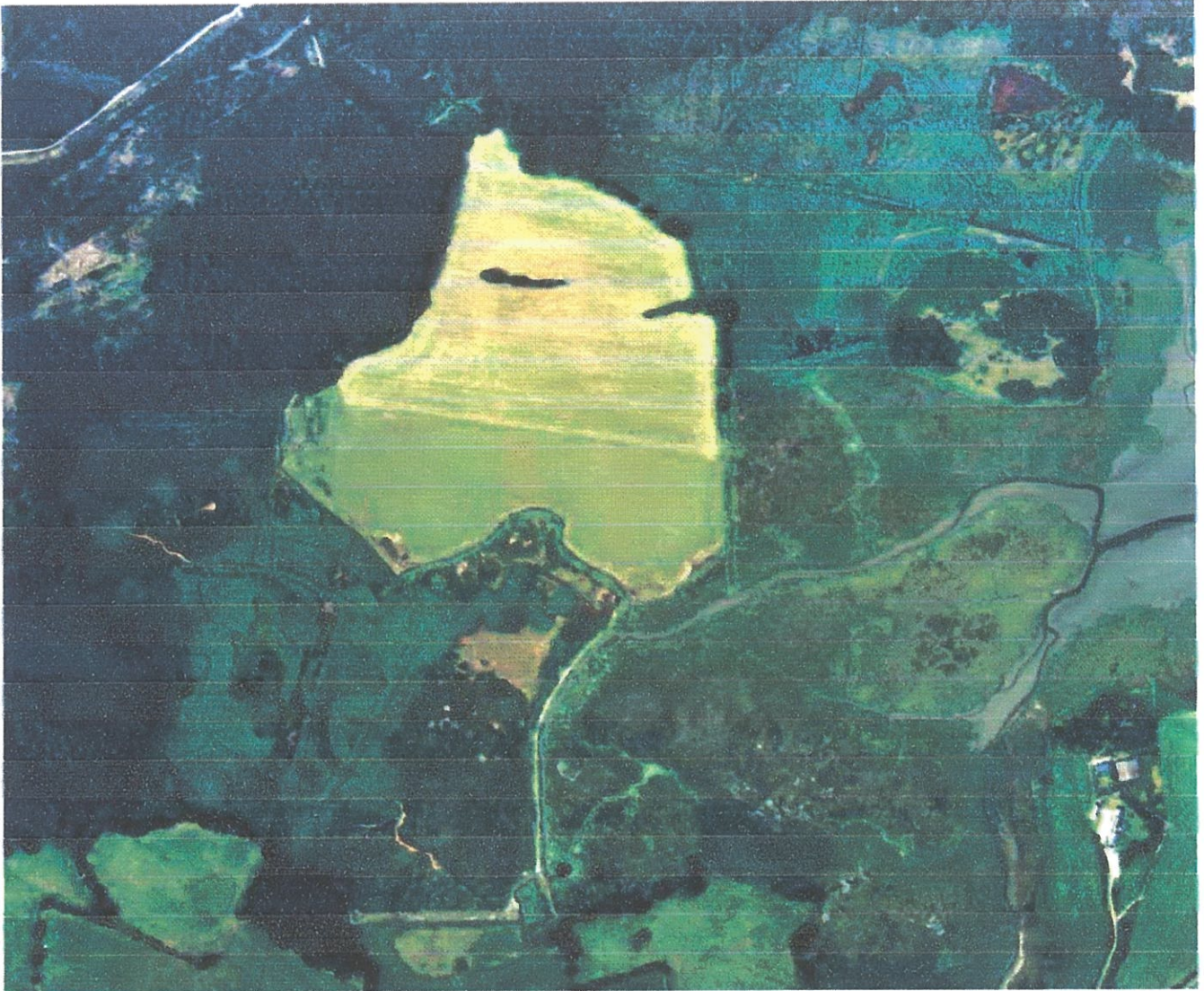
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[1]

8.SALTERNS REEDBED



7. SLEPE REEDBED

7. SLEPE REEDBED

Grid ref. SY960865

Survey Date: 3/11/00

1. Summary

1.1 Key features

Key features	Summary
Reedbed area (ha.)	12.77
Hydrology	Saline in east and south fresh in northwest
Condition	Good
State	Stable to slight decline
Adjacent to	Saltmarsh, woodland, pasture, heathland, Harbour
Mgmt. Problems	Saline influx, access
Notable sp.	RW, RB, WR, Sn
Current mgmt.	None but some past water control
Expansion opportunities ?	No
Management opportunities ?	Yes

1.2 Quick Reference Map



1.3 Summary

- A diverse reedbed with open water, pools, fresh and saline areas, including saltmarsh and dry banks
- Surrounded by a complex of important habitats
- Strong source of water both from the Harbour and incoming freshwater in the north
- Past management by the RSPB has included tidal flaps which now appear to leak or there are other sources of saline input into the bed and an east-west causeway to separate fresh from saline
- There has been limited monitoring of the site though some records appear in the 1996 survey including Odonata records
- Past records for Water Vole (pers.comm. John Day and 1996 Reedbed survey)
- Extremely difficult and dangerous to access for surveying and management
- Large amount of open water (mainly saline)
- Reed quality highly variable from dense and tall to short rushy areas and curved reed – this represents the variable hydrology and land form
- Records for notable species
- There are considerable management opportunities but the topography and hydrology require a considerable effort to make significant changes

2. Site Description

The whole of the reedbed is within the Poole Harbour SPA, SSSI and Ramsar boundaries

2.1 General

Sited at the western end of the Middlebere Lake and between heathland, carr deciduous and coniferous woodland and the Harbour this reedbed adds greatly to the biodiversity of this rich area and is an important component of the RSPB Arne reserves.

2.2 Access

No public rights of way exists. All access by prior arrangement and permission from the RSPB. The bed is accessible from the Arne Road, taking a track southwards through reclaimed heathland and walking across a grass field. Access within the bed is made very difficult by scattered deep pools and a long central ditch associated with an east-west dry bank. Even with waders it is impossible to traverse the whole bed in an organised way.

3. Site History

The structure of the bed is not natural - earlier activities have created a complex of banks, pools etc making this a reedbed with very varied topography. The RSPB constructed a causeway stretching east-west to separate the saline area from the fresh. The bed is well ditched on the northern boundary (photo 977) taking drainage water from the bed and the woodland and fields. During the RSPB ownership tidal flaps were fitted in the northern end of the seawall/tractor track (photos 988,989, 991).

4. Current Management

No specific management at present but ideas to allow the Harbour waters to inundate the bed more freely by breaching the sea wall have been proposed.

5. Survey Results

5.1

This reedbed is complex. The topography, water quality, habitats and reed quality are all very variable. However this diversity is greatly to its advantage though if it was purely freshwater it would be much richer. There is a considerable amount of open water though much of this is too deep to be of full advantage to feeding water rails or wintering bitterns although there should be enough diversity to accommodate them.

Harbour water appears to inundate the bed from both leakage through the wall and flaps and a ditch in the south eastern area. The whole of the eastern half seems to be essentially saline and partly tidal (though this would have to be surveyed on high tide) – the presence of a large area of *Salicornia* in the north east (photo 993) proves this. Most of this area is dominated by rush and patches of *Spartina* rather than reed.

Probably only the top third is truly fresh.

Reed quality may vary but there is a dense area of reed occupying the central block of the bed (see aerial photograph). However virtually all the reed is curved at its interface with water or ground level changes.

For example at SY96168640 there is a zone of curved low reeds, quite thin with rushes and grass where the ground is drier.

The water flows appears to be: a strong flow of freshwater from the north and west which meets tidal water from the southern ditch and leakage. This and the east-west causeway shifts the flow generally north and eastwards, going out of the tidal flaps and northern ditch. On low tide there is probably a reversal so that some water drains south through the southern ditch and out.

The causeway was constructed to prevent/reduce the flow of tidal water into the northern and western section of the reedbed. This is succeeding – from the aerial photograph it can be seen that the saltmarsh zone is clearly separated from the dense reed zone. However there is some flow of tidal water up the northern ditch (presumably because of a failure of the sluice/flaps) which influences the bed.

The fresh northwestern section grades into the *Deschampsia* bog and then carr (photos 1012 to 1018). There is scope for management here by pollarding and machine work to open up pools.

Water voles were not found on the survey although they are recorded from the western area. I think these, birds and invertebrates (esp. Odonata) would benefit from attempts to keep the saline water out but this will require a constant effort and may not be practical.

This and Salterns are the most varied beds within this survey and potentially should have the highest diversity. They are similar to the small central bed on Brownsea Island which also has great variety and good water supply. However that bed is fresh and supports water voles, small fish, amphibians, Odonata, high population of water rails etc.

5.2 Photographic record held on CD ROM

Photo Number P0000.....	Reedbed	Grid Reference	Direction taken	Notes
976		SY96128868	NW300	Field to north of bed
977		96078669	S200	Deep perimeter ditch 2m. wide
978			NW300	Open pools and bank in NE corner, water 1 metre higher in bed than ditch with water flowing from bed into ditch
979		96188657	NW300	Tower hide overlooking bed
980		96188657	NW340	View from hide
981			NW280	"
982			SW220	"
983			S190	"
984			S150	"
985			SE100	"
986		96278656	NW	From edge of reeds, shallow saline pools fringed with <i>Spartina</i> , rushes – small bridge across ditch here
987		96388653	N330	Saltmarsh fringe
988		96398653		Simple tidal flaps under track by gate
989		96388651		Another sluice with tidal flaps draining water from reedbed to Harbour
990		96388651	SW220	Along southern boundary bank
991		96378649	E100	Tidal flap
992		96308644	NW330	Central open marshy/rushy area, access across deep water from track to here
993				" <i>Salicornia</i> here
994		96238644	S200	Saltmarsh stretches SE and SW. <i>Spartina</i>
995		96168640		Zone rush to reed. Curved reeds 1-1.5 metre high and thin, grass, deer tracks. Dry – no standing water
998		96168640	NW300	General view
999		96188632	N	Curving drain from bed
1000		96238628	N	Solid <i>juncus</i> , little <i>Spartina</i> in small creeks which lead into above drain

1001		96238628	W	Woodland along western edge
1002		96198623	E	Southern drain – little flow
1003		96118633	SW120	Southern section – grassy bank leads into bed with ditch on south east side
1004		96128634	N30	Dry grassy bank running N 30
1005		96128636	NW290	Open rushy area and deep ditch – at least 1 metre deep
1006		96128636		Deep pool
1007		96198649	NW	Poole – relic of drain? On north side of bank
1008		96128654	N340	Open water
1009		96128653	S230	View of open pools
1010		96088655		More deep pools – dangerous access
1011		96068656	N	Line of ditch due north, next to east-west bank
1012		96028670	SW260	NW edge. Deeply tussocked Deschampsia bog
1015		95899668	SE150	Northern end of bed
1016		95888657		Western edge. Sallow carr, Hydrocotyle, Juncus effusus etc. Could do some management here – pollarding, pools
1017		95878653	SE130	Western edge- mainly D. tussocks - freshwater
1018		95848657	NE40	Woodland edge in west

5.3 Other references

RSPB Reedbed file

Preliminary Survey of the Reedbeds around Poole Harbour (Price and Pickess) 1993

Reedbed Survey 1996

6. Recommendations

- More monitoring of breeding and wintering birds is required to assess more the value of the saline and fresh areas. There is no constant effort on this site which I believe would be valuable
- Reed warbler nesting density survey would give some baseline information to compare with other sites – are they affected by curved reeds or diversity of site ?
- Water voles should be re- surveyed and then again regularly
- Odonata and other invertebrates should be surveyed. Particular attention could be shown to ovipositing areas of Odonata
- Options to consider the future management should be drawn up. As much effort as possible should be put in to this bed to retain the existing freshwater area and preferably extend it. Massive machine works could restructure this bed to make it more fresh, sustainable and with better access for management
- It is an important bed as it stands so one option is to do nothing until necessary
- The option to allow breaching of the sea should be looked at in more detail and see what effect this will have on the fresher areas of the bed
- More detailed salinity tests throughout different tides and weather would yield useful information
- Coppicing and pollarding of surrounding woodland should improve site for invertebrates
- Coupled with above options for increasing perimeter scrub should be looked at
- A Management Plan needs to be drawn up
- More species information may be available – contact with B. Pickess could add more information

7. Species list

7.1 Interesting species noted on 1996 survey:

Water vole activity (centre bank)

Birds: Reedwarbler, reed bunting, moorhen, water rail, hobby, little egret, grey heron, green sandpiper, common sandpiper, greenshank, little ringed plover, snipe

Odonata: Emperor, southern hawkler, 4 spotted chaser, broad bodied chaser, blacktailed skimmer, keeld skimmer, common blue damselfly, blue tailed damselfly, emerald damselfly, common darter, ruddy darter

7.5 Records from DERC (unsorted)

<i>Mentha aquatica</i>	Water Mint		SY958863	SY98/01/1 4	Arne (SMU 14)	Mar-85	McGibbon , Mr R.	English Nature (1997)	saltn/reed b/other	319954
<i>Aster tripollum</i>	Sea Aster	DN	SY961864	SY98/01/1 4	Arne (SMU 14)	Mar-85	McGibbon , Mr R.	English Nature (1997)	saltn/reed b/other	319962
<i>Juncus subnodulosus</i>	Blunt-flowered Rush	DN	SY958863	SY98/01/1 4	Arne (SMU 14)	Mar-85	McGibbon , Mr R.	English Nature (1997)	saltn/reed b/other	319952
<i>Juncus maritimus</i>	Sea Rush		SY959866	SY98/01/1 4	Arne (SMU 14)	Mar-85	McGibbon , Mr R.	English Nature (1997)	saltn/reed b/other	319963
<i>Juncus maritimus</i>	Sea Rush		SY961864	SY98/01/1 4	Arne (SMU 14)	Mar-85	McGibbon , Mr R.	English Nature (1997)	saltn/reed b/other	319957
<i>Bolboschoenus maritimus</i>	Sea Club-rush	DN	SY961864	SY98/01/1 4	Arne (SMU 14)	Mar-85	McGibbon , Mr R.	English Nature (1997)	saltn/reed b/other	319960
<i>Festuca rubra sens.str.</i>	Red Fescue		SY961864	SY98/01/1 4	Arne (SMU 14)	Mar-85	McGibbon , Mr R.	English Nature (1997)	saltn/reed b/other	319959
<i>Elytrigia atherica</i>	Sea Couch		SY961864	SY98/01/1 4	Arne (SMU 14)	Mar-85	McGibbon , Mr R.	English Nature (1997)	saltn/reed b/other	319958
<i>Schoenus nigricans</i>	Black Bog-rush	DN	SY958863	SY98/01/1 4	Arne (SMU 14)	Mar-85	McGibbon , Mr R.	English Nature (1997)	saltn/reed b/other	319955
<i>Molinia caerulea</i>	Purple Moor-grass		SY957865	SY98/01/1 4	Arne (SMU 14)	Mar-85	McGibbon , Mr R.	English Nature (1997)	saltn/reed b/other	319980
<i>Phragmites australis</i>	Common Reed		SY958863	SY98/01/1 4	Arne (SMU 14)	Mar-85	McGibbon , Mr R.	English Nature (1997)	saltn/reed b/other	319953
<i>Phragmites australis</i>	Common Reed		SY959866	SY98/01/1 4	Arne (SMU 14)	Mar-85	McGibbon , Mr R.	English Nature (1997)	saltn/reed b/other	319964
<i>Phragmites australis</i>	Common Reed		SY961864	SY98/01/1 4	Arne (SMU 14)	Mar-85	McGibbon , Mr R.	English Nature (1997)	saltn/reed b/other	319956

REEDBED ASSESSMENT FORM

Site Slope	Grid ref. (site/sample) SY960865	Owner/contact number RSPB
Recorder KC	Date:3/11/00	

Size	<1ha	1-5ha	5-10ha	>10ha 12.77
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Adjacent land use	Arable	Pasture *	Woodland *	Heath	Reed	Saltmarsh *	Carr *	Other Marsh *	Other Harbour
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Shape	Linear	Block *	Potential for expansion	NO	Amount or % gain
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% area of/ presence of	Poor reed 20	Good reed 30	Rush 25	Saltmarsh 10	Scrub	Pools/ditches *	Banks *	Other *
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Water source	Fresh – river/stream	Fresh – groundwater *	Saline – tidal *	Saline with fresh
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PH (fw)	4.8 SY96068658	Salinity	.5 to 1.6 (rushy area)	Signs of	Deer *	Cattle	Grazing A little
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Ditches	Not relevant	Not present	Not functioning	Functioning well *
Sluices	Not relevant	Not present	Not functioning	Functioning well * ?

Water flow	Not obvious	Through bed *	Through ditches/stream *	Tidal *
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Water level above litter cm.	0 to 1.5 metres	No water
Leaf litter cm.		No significant litter *

Scrub	0	0-10	10-50	More	Edge *	Scattered
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Species	Sallow, birch, oak
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REED CONDITION

Height	<1.5 1 to 1.5	1.5-2.5	>2.5
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Density m ²	<100	100-200 100 to 150	>200
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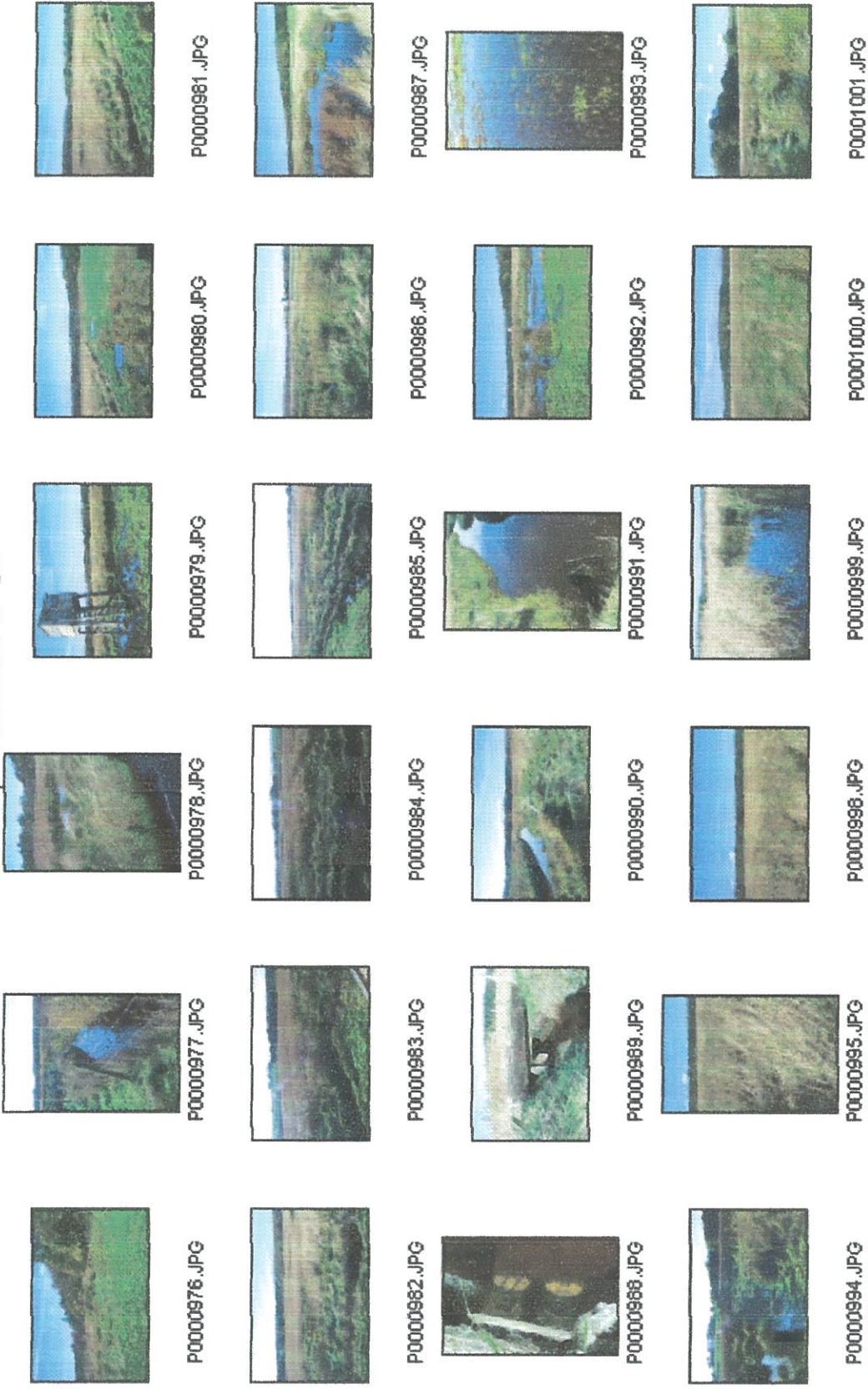
Flower spike %	50 +
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Stem diameter at butt	3-4
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Straightness	All curved	75:25	50:50 * varies>	25:75 *	All straight
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Hardness (squeeze at butt end)	Hard *	Soft
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Slepe Reedbed JPGs



Slepe Reedbed .JPGs



P0001002.JPG



P0001003.JPG



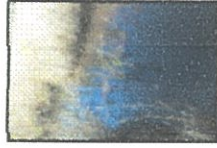
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P0001006.JPG



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P0001008.JPG



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P0001012.JPG



P0001015.JPG



P0001016.JPG



P0001018.JPG



P0001017.JPG

Name: Slepe reedbed jpgs contact002.bmp
Dimensions: 800 x 600 pixels

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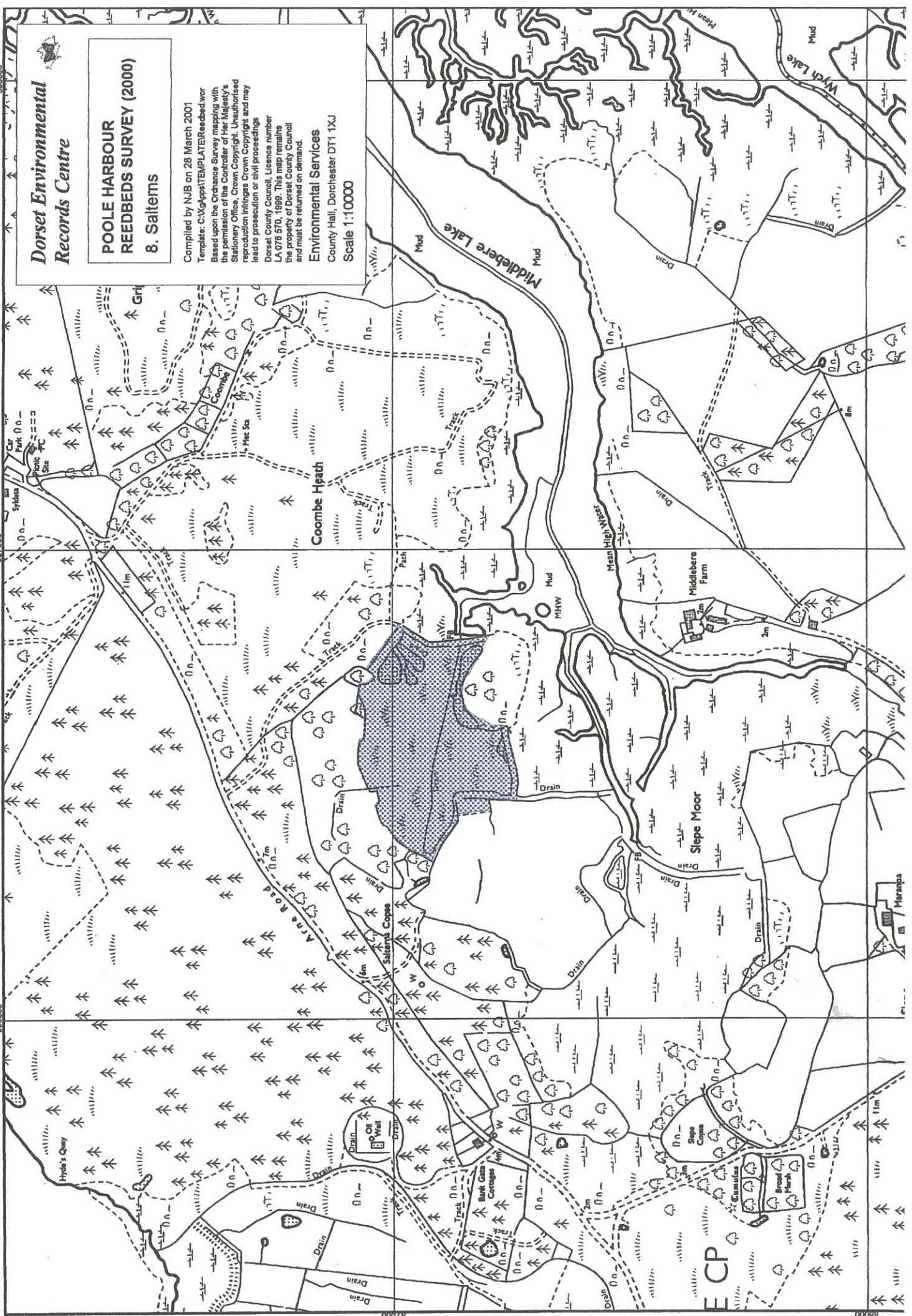
**Dorset Environmental
Records Centre**

**POOLE HARBOUR
REEBEDS SURVEY (2000)**

8. Salterns

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8. SALTERNS REEDBED

Grid ref. SY966869

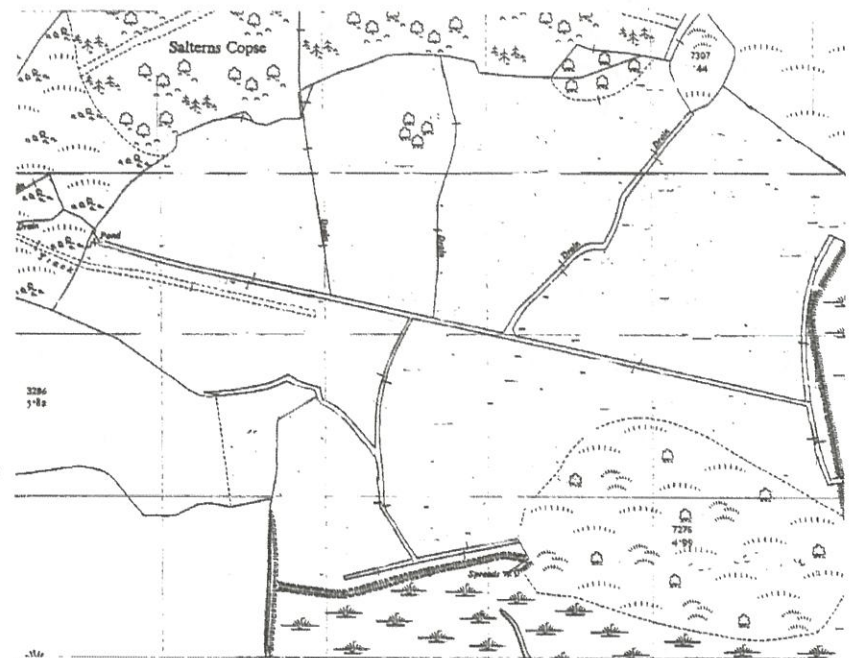
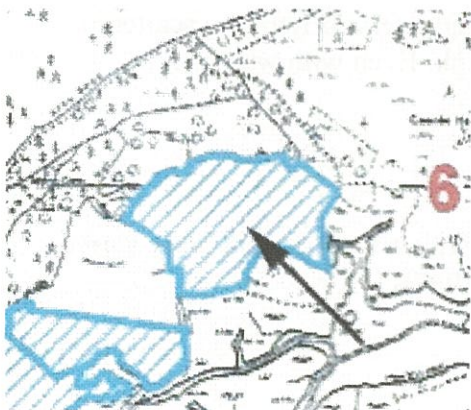
Survey Date: 3/11/00

1. Summary

1.1 Key features

Key features	Summary
Reedbed area (ha.)	10.77
Hydrology	Saline in south and east but mainly fresh
Condition	Good
State	Stable
Adjacent to	Saltmarsh, woodland, pasture, heathland, Harbour
Mgmt. Problems	Saline influx, minor deer damage
Notable sp.	RW, RB, WR, WV
Current mgmt.	None but some past water control
Expansion opportunities ?	No
Management opportunities ?	Yes

1.2 Quick Reference Maps



Map of Drains (from RSPB) (a causeway follows the line of the east-west drain)

1.3 Summary

- A diverse reedbed with open water, pools, fresh and saline areas, including saltmarsh and dry banks
- Predominantly fresh water
- Surrounded by a complex of important habitats
- Strong source of water both from the Harbour and incoming freshwater in the north

- Some past management by the RSPB including an east-west causeway and sluice to reduce saline influence.
- Habitats surveyed in some detail by RSPB in 1993 Reedbed Inventory
- Notable species including water vole
- Large amount of open water
- Reed quality highly variable from dense and tall to short rushy areas and curved reed – this represents the variable hydrology and land form
- Some management possible but generally bed is good condition

2. Site Description

The whole of this reedbed is within the Poole Harbour SPA, SSSI and Ramsar boundaries

2.1 General

Sited at the western end of the Middlebere Lake near the Slepe reedbed and between heathland, carr deciduous and coniferous woodland and the Harbour this reedbed adds greatly to the biodiversity of this rich area and is an important component of the RSPB Arne reserves.

2.2 Access

No public rights of way exists. All access by prior arrangement and permission from the RSPB. The bed is accessible from the Arne Road, taking a track southwards through reclaimed heathland and walking across a grass field. Access into the bed is via the seawall in the south. Alternatively the bed can be approached from the woodland in the north. Access within the bed is made very difficult by scattered deep pools and a long central ditch associated with an east-west dry bank. Even with waders it is impossible to traverse the whole bed in an organised way.

3. Site History

Previous activities have created a complex of banks, pools etc making this a reedbed with very varied topography. The RSPB constructed a central causeway in the 1970s/early80s (?).

4. Current Management

No specific management at present .

5. Survey Results

5.1

Aerial photos: on CD Aerial Sal.jpg

Site photos: 930- 975

From the west the bed is approached via an improved grassland field. Along the length of the wire fence is a ditch (photo 936) – rushy areas extend into the field. The southern sea wall extends from the field to a scrub covered ‘island’. Saline pools occur along this southern edge (salinity 7.2% seawater -photo941). From the island another bank (photo 942) extends as a curve going north and east to meet the central causeway. North of this area the water is fresh coinciding with signs of water voles (SY96598685, photo 946 – old nest; SY96618688, photo 952 – feeding site, SY96658689, photo 958 – feeding site).

There is a great deal of deer activity in the central area of the bed and on the bank – the bank no doubt acts as an easy access for them and a loafing area. Surprisingly the bank has quite a diverse wildlife including foxgloves, lichens, and meadow ants .

The banks add great diversity to the bed and are probably important for winter survival of water voles. The bed itself has a lot of open water (fresh and saline) the reeds are in reasonable condition and density and cover large continuous areas. Where there are rushes (photo 954 SY96638689) these must be considered as part of the bed ecosystem and particularly important for wintering water vole food (see photos).

Like Slepe this bed is very difficult to access for surveying – the one plank bridge I found collapsed under me. Routes through into the northern section could be made to improve surveying (esp. invertebrates).

Overall this is a good quality reedbed, despite the saline areas. Its has open water, banks , rushy areas plus plenty of dense reed for nesting warblers.

5.2 Photographic record held on CD ROM

Photo Number P0000.....	Reedbed	Grid Reference	Direction taken	Notes
Aerial Sal.jpg				Aerial photo
930		SY96448687	N320	Western edge. Improved pasture – shallow ditch parallel to fence
935		96438697	E	Corner of field
936		96448686		Broad ditch which follows fence to western end
937		96458680	S170	Western boundary fence. Improved field higher than reedbed by .5m
938		96488677		Sea wall (earth bank) – saltmarsh to south
939		96488677		From SW corner
940		96498676	SE140	From southern bank to Middlebere Farm
941		96558676	N	Open water – deep say 1- 1.5 metre,
942		96648684	N	From 'island'
943		96638683		Small wooden sluice – level on north side 15cm. Lower than south. Old drainage ?
944				Bank which curves away N and E from 'island'
945		96628683	N30	Continuation of bank
946		96598685		Old water vole's nest ?
947		96608687		Low rushy area north of bank. Fw. including mixed flora eg. Buckler fern
952		96618688		Fresh Water vole feeding site
954		96638689		Further east in central area – extension of previous rushy area, limited deer damage, important winter food for voles and rush tussocks act as islands during high rainfall and moss is useful for voles as nest material
958		96658689		Water vole feeding site – recent, eating rushes, leaving pith
962		96658689		Central rushy area
964				Water vole feeding site
965		96668689	W280	Another bank going west, lots of deer activity – resting place, water voles
966		96688689	E	Along line of bank, pools .75m deep. Original bank curves round to meet this – lichens on meadow ant nests
968		96648688	E	Main bank – lichen covered hummocks, foxgloves
969				Footbridge across main drain which collapsed with me on it !
970		96698689		Main drain, north side – how do I get back !
971		96698689	NW290	
972		96708689		Small reedy offshoot ditch from main drain
973		96708693	N310	Another low bank
974		96738695	SE130	Area close to hide
975		96728698	NE	Pool and hide

5.3 Other references

RSPB Reedbed files

Preliminary Survey of the Reedbeds around Poole Harbour (Price and Pickess) 1993

Reedbed Survey 1996

6. Recommendations

- More monitoring of breeding and wintering birds is required to assess more the value of the saline and fresh areas. There is no constant effort on this site which I believe would be valuable
- Reed warbler nesting density survey would give some baseline information to compare with other sites – are they affected by curved reeds or diversity of site ?
- Water voles should be re- surveyed and then again regularly
- Odonata and other invertebrates should be surveyed. Particular attention could be shown to ovipositing areas of Odonata
- This is an important and diverse reedbed : options to consider the future management should be drawn up: as much effort as possible should be put in to this bed to retain the existing freshwater area .
- It is an important bed as it stands so one option is to do nothing until necessary
- Coppicing and pollarding of surrounding woodland should improve site for invertebrates
- Coupled with above options for increasing perimeter scrub should be looked at
- More species information may be available –B. Pickess could add more information

7. Species list

7.1 Notable species seen during the survey:

Water vole

7.2 Interesting species noted on 1996 survey:

Common lizard, water vole

Birds: Reedwarbler, reed bunting, stonechat, water rail ,hobby, little egret, grey heron,

Odonata: Emperor, southern hawkler, 4 spotted chaser, large red damselfly, small red damselfly, azure damselfly, common blue damselfly, blue tailed damselfly, emerald damselfly, common darter, black darter, ruddy darter

7.5 Records from DERC (unsorted)

Calypogeia a fissa	a liverwort		SY966870	SY98/01/1 3	Arne (SMU 13)	Salterns Marsh	29-May- 96	Edwards, Mr B.	Edwards, B. (1997)	reedb/oth er	198354
Sphagnu m palustre	a bog moss		SY966870	SY98/01/1 3	Arne (SMU 13)	Salterns Marsh	29-May- 96	Edwards, Mr B.	Edwards, B. (1997)	reedb/oth er	198351
Sphagnu m squarrosu m	a bog moss		SY966870	SY98/01/1 3	Arne (SMU 13)	Salterns Marsh	29-May- 96	Edwards, Mr B.	Edwards, B. (1997)	reedb/oth er	198353
Sphagnu m fimbriatum	a bog moss		SY966870	SY98/01/1 3	Arne (SMU 13)	Salterns Marsh	29-May- 96	Edwards, Mr B.	Edwards, B. (1997)	reedb/oth er	198350
Sphagnu m recurvum var. mucronatu m	a bog moss		SY966870	SY98/01/1 3	Arne (SMU 13)	Salterns Marsh	29-May- 96	Edwards, Mr B.	Edwards, B. (1997)	reedb/oth er	198352
Polytrichu m commune	a hair- moss		SY966870	SY98/01/1 3	Arne (SMU 13)	Salterns Marsh	29-May- 96	Edwards, Mr B.	Edwards, B. (1997)	reedb/oth er	198349
Bryum pseudotriq uetrum	a moss	DN	SY966870	SY98/01/1 3	Arne (SMU 13)	Salterns Marsh	29-May- 96	Edwards, Mr B.	Edwards, B. (1997)	reedb/oth er	198348
Aulacomni um palustre	a moss	DN	SY966870	SY98/01/1 3	Arne (SMU 13)	Salterns Marsh	29-May- 96	Edwards, Mr B.	Edwards, B. (1997)	reedb/oth er	198347
Pteridium aquilinum	Bracken		SY966867	SY98/01/1 3	Arne (SMU 13)		Mar-85	McGibbon , Mr R.	English Nature	reedb/oth er	320012

<i>Dryopteris carthusiana</i>	Narrow Buckler-fern	DN	SY966870	SY98/01/13	Arne (SMU 13)	Salterns Marsh	29-May-96	Edwards, Mr B.	Edwards, B. (1997)	reedb/other	198358
<i>Quercus robur</i>	Pedunculate Oak		SY965869	SY98/01/13	Arne (SMU 13)		Mar-85	McGibbon, Mr R.	English Nature (1997)	reedb/other	319994
<i>Crataegus monogyna</i>	Hawthorn		SY966867	SY98/01/13	Arne (SMU 13)		Mar-85	McGibbon, Mr R.	English Nature (1997)	reedb/other	320013
<i>Ulex europaeus</i>	Gorse		SY966867	SY98/01/13	Arne (SMU 13)		Mar-85	McGibbon, Mr R.	English Nature (1997)	reedb/other	320014
<i>Hydrocotyle vulgaris</i>	Marsh Pennywort	DN	SY966870	SY98/01/13	Arne (SMU 13)	Salterns Marsh	29-May-96	Edwards, Mr B.	Edwards, B. (1997)	reedb/other	198357
<i>Juncus effusus</i>	Soft Rush		SY966870	SY98/01/13	Arne (SMU 13)	Salterns Marsh	29-May-96	Edwards, Mr B.	Edwards, B. (1997)	reedb/other	198355
<i>Festuca rubra sens.str.</i>	Red Fescue		SY966867	SY98/01/13	Arne (SMU 13)		Mar-85	McGibbon, Mr R.	English Nature (1997)	reedb/other	320011
<i>Molinia caerulea</i>	Purple Moor-grass		SY966870	SY98/01/13	Arne (SMU 13)	Salterns Marsh	29-May-96	Edwards, Mr B.	Edwards, B. (1997)	reedb/other	198356
<i>Phragmites australis</i>	Common Reed		SY965869	SY98/01/13	Arne (SMU 13)		Mar-85	McGibbon, Mr R.	English Nature (1997)	reedb/other	319993
<i>Phragmites australis</i>	Common Reed		SY966870	SY98/01/13	Arne (SMU 13)	Salterns Marsh	29-May-96	Edwards, Mr B.	Edwards, B. (1997)	reedb/other	198359
<i>Juncus maritimus</i>	Sea Rush		SY964864	SZ08/04/40	Poole Harbour (SMU 40)		Mar-85	McGibbon, Mr R.	English Nature (1997)	mud/saltm /reedb	319990
<i>Juncus maritimus</i>	Sea Rush		SY964866	SZ08/04/40	Poole Harbour (SMU 40)		Mar-85	McGibbon, Mr R.	English Nature (1997)	mud/saltm /reedb	319991
<i>Juncus maritimus</i>	Sea Rush		SY967869	SZ08/04/40	Poole Harbour (SMU 40)		Mar-85	McGibbon, Mr R.	English Nature (1997)	mud/saltm /reedb	320009
<i>Atriplex portulacoides</i>	Sea Purslane		SY964864	SZ08/04/40	Poole Harbour (SMU 40)		Mar-85	McGibbon, Mr R.	English Nature (1997)	mud/saltm /reedb	319989
<i>Atriplex portulacoides</i>	Sea Purslane		SY967869	SZ08/04/40	Poole Harbour (SMU 40)		Mar-85	McGibbon, Mr R.	English Nature (1997)	mud/saltm /reedb	320010

REEDBED ASSESSMENT FORM

Site Salterns	Grid ref. (site/sample) SY966869	Owner/contact number RSPB
Recorder KC	Date: 3/11/00	

Size	<1ha	1-5ha	5-10ha	>10ha 10.77
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Adjacent land use	Arable	Pasture *	Woodland *	Heath * near	Reed	Saltmarsh *	Carr	Other Marsh	Other Harbour
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Shape	Linear	Block *	Potential for expansion	NO	Amount or % gain	
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% area of/ presence of	Poor reed 5	Good reed 60	Rush *	Saltmarsh	Scrub	Pools/ditches *	Banks *	Other
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Water source	Fresh – river/stream *	Fresh – groundwater	Saline – tidal	Saline with fresh *
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PH (fw)	5.1	Salinity	7.2	Signs of	Deer *	Cattle	Grazing
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Ditches	Not relevant	Not present	Not functioning	Functioning well *	
Sluices	Not relevant	Not present	Not functioning ?	Functioning well	?

Water flow	Not obvious	Through bed	Through ditches/stream *	Tidal	
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Water level above litter cm.	10-30	No water
Leaf litter cm.	0-5	No significant litter

Scrub	0	0-10	10-50	More	Edge *	Scattered
Species						

REED CONDITION

Height	<1.5	1.5-2.5 * mainly 1.5	>2.5 * some
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Density m ²	<100	100-200 *	>200	
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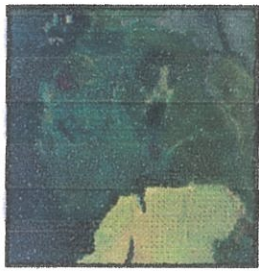
Flower spike %	70
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Stem diameter at butt	4-6
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Straightness	All curved	75:25	50:50	25:75 some curved	All straight Mainly *
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Hardness (squeeze at butt end)	Hard *	Soft
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Salterns Reedbed JPGs



Aerial Sal.jpg



P0000930.JPG



P0000935.JPG



P0000936.JPG



P0000937.JPG



P0000938.JPG



P0000939.JPG



P0000940.JPG



P0000941.JPG



P0000942.JPG



P0000943.JPG



P0000944.JPG



P0000945.JPG



P0000946.JPG



P0000947.JPG



P0000952.JPG

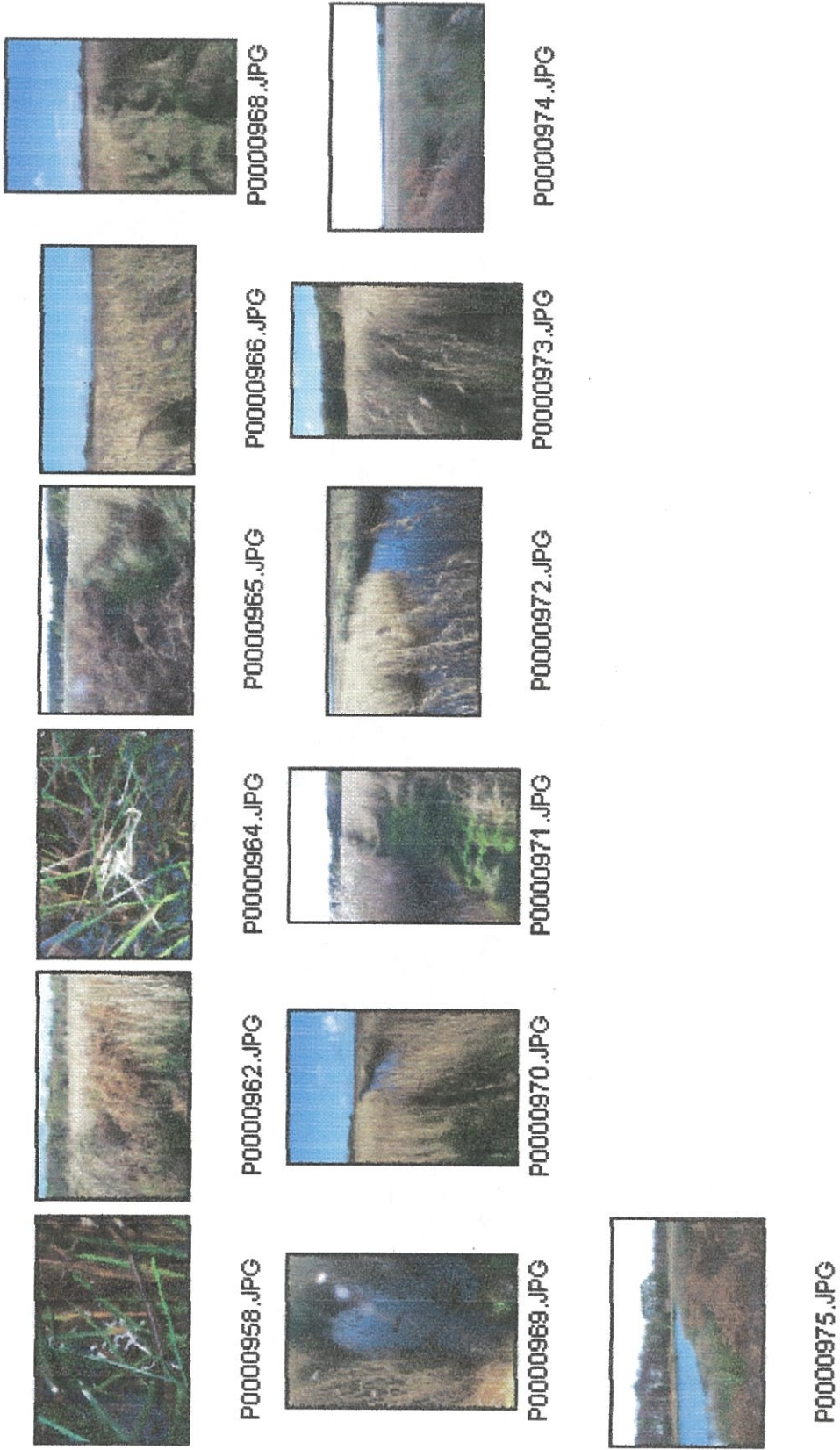


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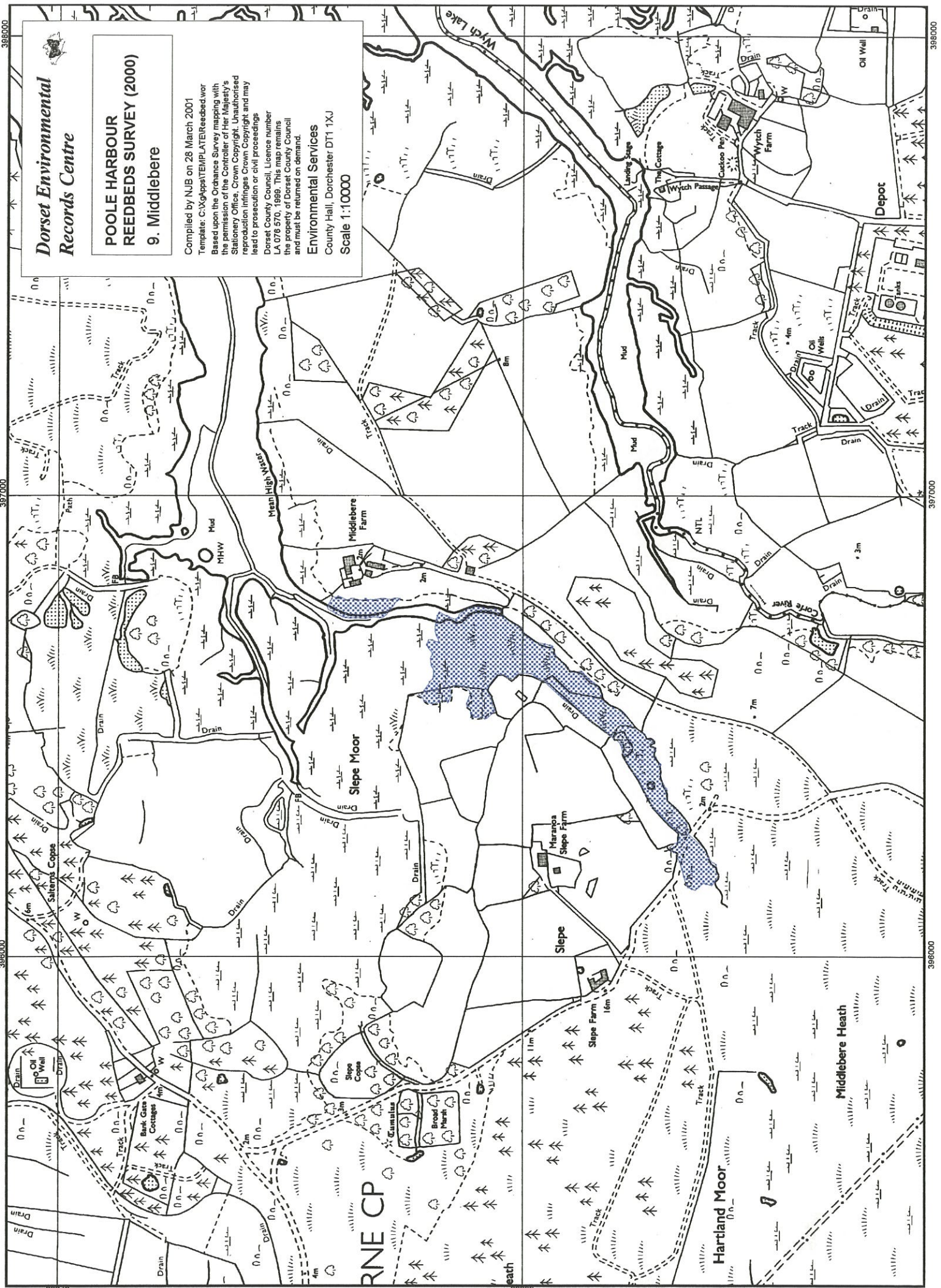
Salterns Reedbed JPGs



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**POOLE HARBOUR
REEBEDS SURVEY (2000)
9. Middlebere**

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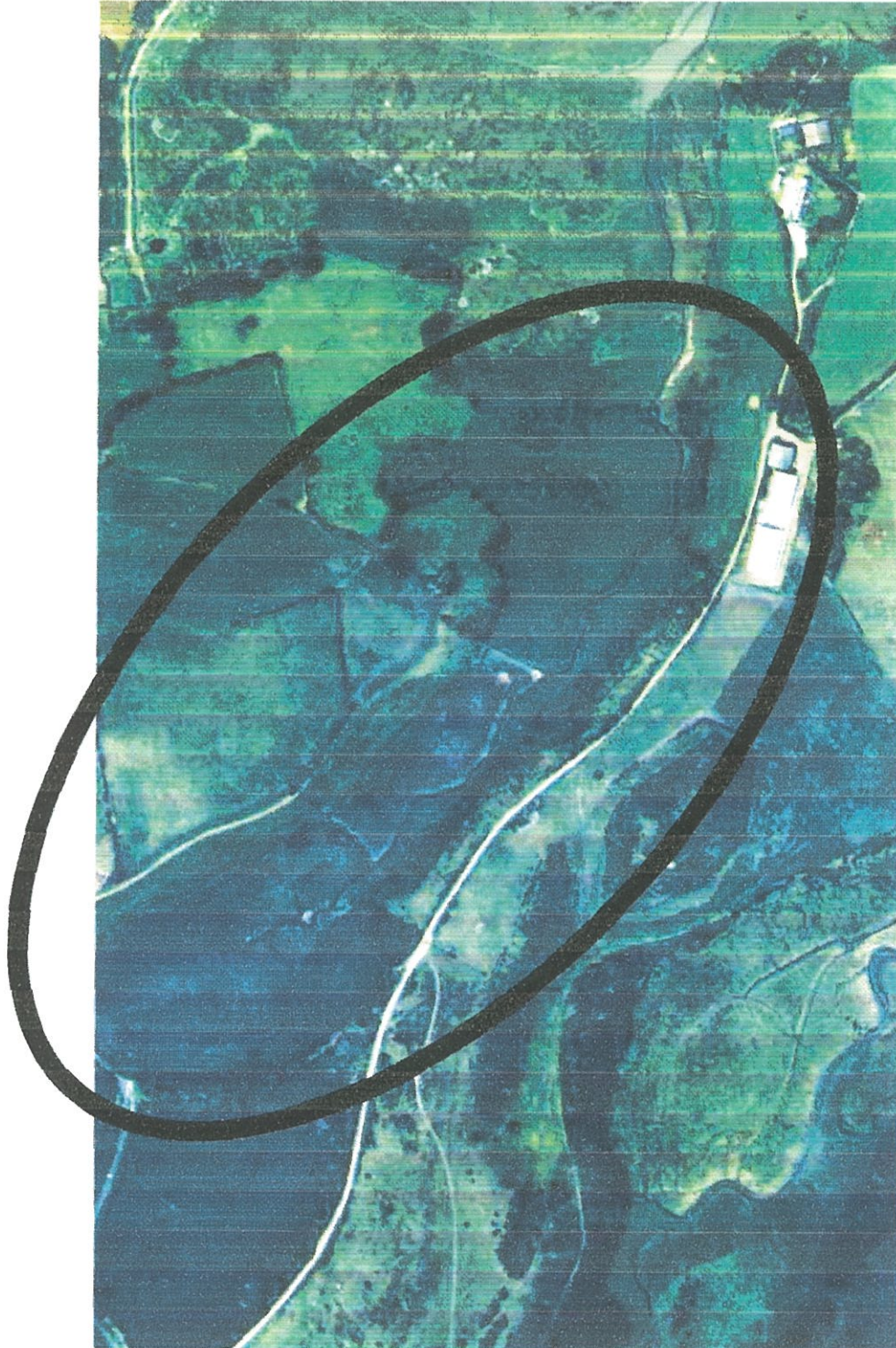
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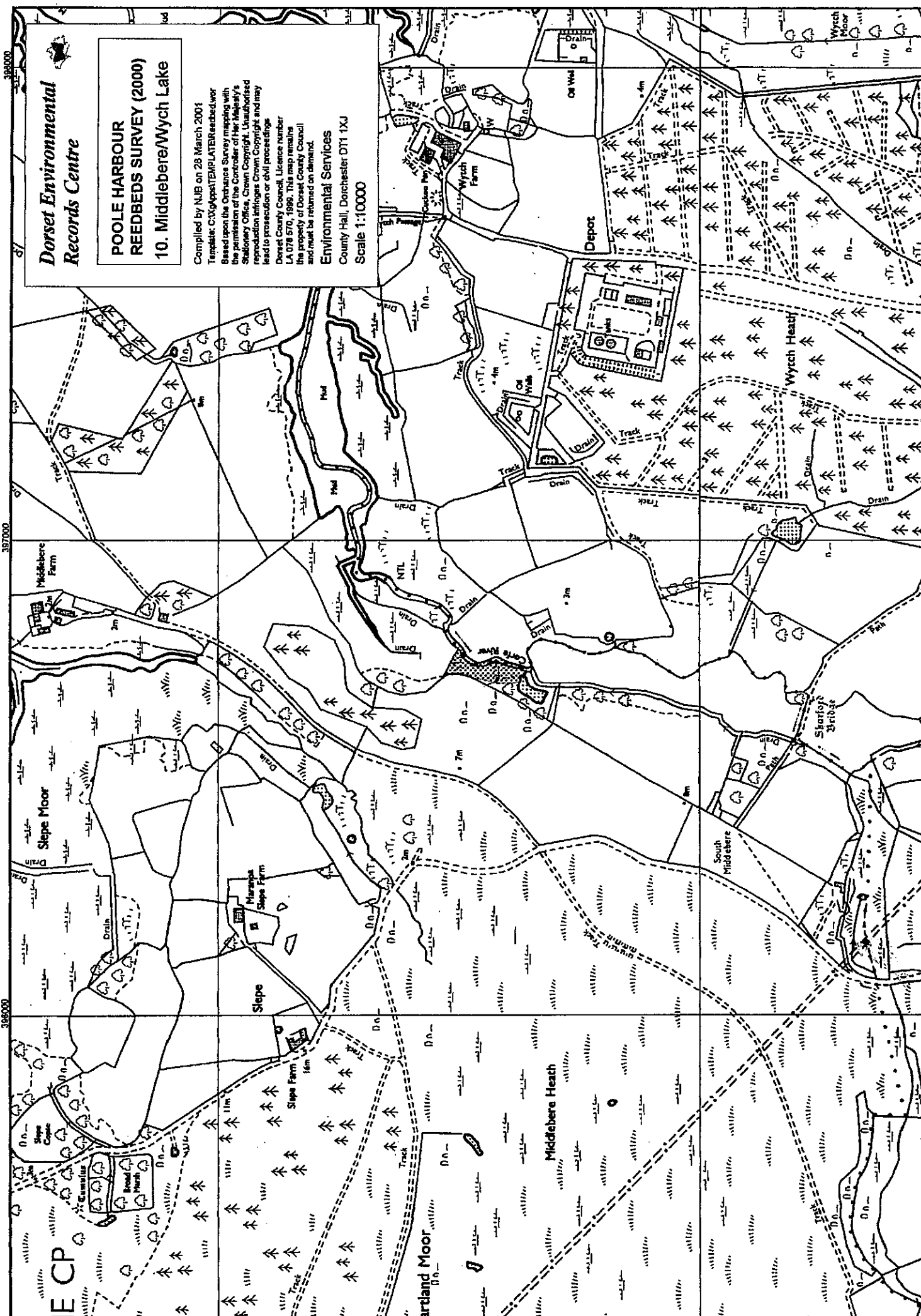
9. MIDDLEBERE REEDBED

**Dorset Environmental
Records Centre**

**POOLE HARBOUR
REEFBEDS SURVEY (2000)
10. Middlebere/Wych Lake**

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10. MIDDLEBERE - WYCH LAKE WEST

9 and 10 -the MIDDLEBERE REEDBEDS including Wych Lake West

Grid Ref. SY965868

Date surveyed: 20/10/01

1. Summary

1.1 Table

Key features	Summary
Reedbed area (hectares)	7.1 and M/WLw: .61
Hydrology	M: Saline and fresh pH 5.7, M/WLw: fresh pH 6.4
Condition	Good to poor (esp. M/WLw)
State	M: stable some decline in north M/WLw: declining
Adjacent to	Saltmarsh, pasture, woodland, carr, Harbour
Mgmt. Problems	Cattle grazing in north, drying out in M/WLw
Notable sp.	WV
Current mgmt.	None
Expansion opportunities ?	M: No, M/WLw: in theory yes
Management opportunities ?	Yes esp. M/WLw

1.2. Quick Reference map



1.3 Key features

Middlebere:

- The Middlebere reedbeds fringe a stream which drains Middlebere Heath and Hartland Moor
- The downstream sections (including the small northern reedbed) are saline
- The upstream section (about half) is freshwater
- These reedbeds are part of a varied wetland complex with acid bogs upstream and saltmarsh, mudflats, and the Salterns and Slepe reedbeds nearby
- Water voles present
- No records found yet for other notable species

- Options for management work
- Damage by cattle grazing in the north west section (within SPA)
- Plentiful freshwater supply from upstream
- Where no cattle grazing the bed is in good condition with tall dense reeds

Middlebere –Wych Lake west

- Small relic reedbed in poor condition
- Freshwater based
- Options for management
- Could expand depending upon ownership/habitat survey
- No records for wildlife

2. Site Description

The northern part of the Middlebere reedbed is within the Poole Harbour SPA, SSSI and Ramsar boundaries. The southwestern (freshwater) half is outside. The Wych Lake west bed is within the above boundaries.

2.1 General

The main Middlebere reedbed is situated at the top of a stream which drains into the Harbour but is only partially affected by the tide greatly improving its wildlife potential in its upstream reaches. Middlebere/Wych lake west is situated alongside the top of the Corfe River where it flows into the Wych Lake

2.2 Access

Middlebere is visible from the track to Middlebere farm but is only accessible with landowners permission. Upper areas are easy to walk, the tidal areas have two deep ditches which are impossible to cross. Wych Lake west has no public access and is accessible from the fields east of the Middlebere Farm track and is easy to walk through.

3. Site History

Part of the Bankes estate handed over to the National Trust in 1982. Management history not known though the northern section of Middlebere was burned by the landowner a few years ago. Cattle grazed in reedbeds since 1992 under Countryside Stewardship scheme. Sporadically grazed prior to this

4. Current Management

No conservation management at present – cattle grazing from July until ground is too wet. Mixed herd

5. Survey Results

5.1 Middlebere

Aerial photos: DCC 22-0296 see *Aerial M.jpg* on CD ROM

Site photos: 648-679

This is a narrow reedbed fringing a stream which flows SW-NE into Middlebere Lake. The incoming stream and also another ditch which feeds the system from fields in the north (SY96578578 – photo 662) provides a regular supply of freshwater to the southwestern half of this bed. At the stream's mouth the bed gives way to saltmarsh (photo 649 SY 96748618) and a smaller bed grows between the farm and the

creek (photo 652). This smaller northern bed (.53 ha.) is tidal and saline with patches of saltmarsh especially along cattle tracks (photo 654). Cattle damage seems to be restricted to the tracks at the moment. Reeds here are about 1.5-2.00 metres high, with thin stems. This northern section of the reedbed is generally in good condition though the presence of cattle is some cause for concern.

Reed quality is good in the lower southern side of the main Middlebere bed especially alongside the stream where it is influenced by the tide (photo 651, 656). Reeds in the south are strong and dense (photo 651, 653). Access through this section is very difficult due to the strength and density of the reeds. However where it is being grazed north of the stream further upstream there is considerable breaking of the reed and poaching (photo 662). Reeds here are lower and thinner and of less value to birds in particular. There is an obvious difference between the ungrazed and the grazed areas (photo 661- the ungrazed bed is on the left).

Signs of water vole appear at SY96678594, a sure sign of the fresher nature of the bed here and then continue upstream (photos 665,668,671). The stream, at the state of the tide when surveyed, became saline at SY96698597.

Progressing further upstream as the reedbed becomes less tidal and fresher the reedbed gets patchy with more variety of plants and more rushes, becoming a more open marshy habitat, This is going to be less useful to reedbed bird specialists but will be a better habitat for water voles and invertebrates

Scrub grows in patches along the edge of this bed (photo 648) and upstream the margins become a mix of bracken, bog myrtle, gorse sallow etc. with a mix of ground flora. This mixed ground flora, and the rough grassland in the nearby deciduous plantation are important for the success of water voles, particularly in the winter when reeds are less valuable – signs of water voles can be found in the peripheral habitats such as the small deciduous plantation (photo 676).

In conclusion this is an interesting bed with potential for management. Its freshwater component should make it an important site for a wide variety of wildlife groups. Work can be done to prevent grazing damage and add water control to flood the upper bed.

5.2 Reedbed 2 – Wych Lake west

Aerial photo: see *Aerial MWL.jpg* on CD ROM

Site photos: 680-691

On the edge of the Corfe River and adjacent to a small alder/mixed wood this is a relic reedbed surrounded by reclaimed habitats. The reeds are dense but all curved. and there are areas of nettles, Typha and grassland. The bed presumably floods during high rainfall periods.

There are two areas to the bed – a small section in the south surrounded by mixed deciduous woodland and various banks and mounds (barely visible in the aerial photograph) (photo 680) . This has deep freshwater in it (especially in the south) and seems to be based on an old pool separated from the rest of the bed by a higher fertile area of Typha and nettles (photo 681) which has degenerated losing its reedbed character. Reeds along the Corfe River connect this area with the northern section (photo 681 on the right). Uncoppiced young Alders protrude as a block from the west. This wood also contains older coppiced stools (photo 689) and various mounds (photo691).

Reeds in the main section are mainly curved and unstable being flattened on the ground at the time of the survey (wind or rain?).

The bed ends in the south with a barbed wire fence against unimproved rushy grassland (photo 684) and on the otherside of the Corfe River there is also grassland (photo 686) – there are possibilities here to extend the bed into these grassland areas (depending upon status and ownership).

In conclusion this small bed has many management possibilities – lowering to increase flooding, coppicing of adjacent alders, extension into the grasslands etc.

5.3 Photographic record held on CD ROM

Photo Number P0000.....	Reedbed	Grid Reference	Direction taken	Notes
648	M	SY96788618	NW300	View from eastern field showing scrub at edge
649		96748618	SW220	Along tidal creek of northern end
650		96758613		Freshwater ditch on northeastern side .75metre deep
651				V. dense reed alongside fw. ditch but reedbed saline at this point
652		96758267	N120	Northern section near old farm
653			S	From edge of northern section
654				Saltmarsh – Salicornia etc. Cattle tracks
655			S	Looking south along creek
656				Tall dense reeds esp. near ditch (some reeds cross ditch)
657		96768606	NW300	By field boundary near working farm
658		96768607	SW220	By fence near farm
659				From farm gate
660		96578578	NW300	Across reedbed, alongside orchard
661				Ditch plus rougher reedbed on northern side
662		Near above		Rough grassland, broken reed (grazing) – fresher water – could sluice be put across here to flood area (check on high tide)
663		96568588	NE40	Down ditch towards Harbour – looks fresh from here upwards (see map and notes)
665		96578585		Signs of water vole
668				“
671				“
672		965857		Fresh flowing ditch flowing into main drain, Typha in ditch
673		96518577		View -signs of water vole activity in this area
674		96488573	NE50	Bog myrtle/bracken edge, looking downstream
675		96558570	W	Gorse/sallow edge - moving towards heath
676				Water vole activity in oak/maple plantation next to reedbed – important for winter
678				Sika deer wallow and bracken edge in plantation
679		96668591		Edge of plantation looking downstream
680	M/WL			Middlebere/Wych Lake reedbed View of southern end (watervole sounds?)
681		96728536	NE30	Rough nettle/Typha area
682		96748542	N	Curved reeds
683		96748542	S200	Alders
684			N	Opportunities for expansion
685			S	Looking from eastern edge of reedbed
686				Reclaimed grassland, strongly flowing fw ditch in foreground, grassland about .6metre above ditch, alders in background
687				Reeds, near bend about 2.5m. plus all curved
689				Carr alongside bed – could be pooled, pollarded, coppiced – banks etc.
691				Mound in alder carr – arch. Interest?
Aerial M.jpg				Aerial photo
AerialMWL.jpg				Aerial photo

5.6 Other references

Preliminary Survey of the Reedbeds around Poole Harbour (Price and Pickess) 1993

Reedbed Survey 1996

Bryan Edwardes botanical report for NT includes a reedbed to the north of this but not these beds

6. Recommendations

Middlebere

- Extend SPA boundary to include the whole of the Middlebere reedbed
- Cattle grazing is degrading the northern side of the main bed and the small northern reedbed. Grazing the main bed should be stopped as it is causing obvious damage, that in the smaller bed should be carefully monitored to prevent further damage.
- The whole of this reedbed should be purchased or secured in some other way for conservation management
- The upper section could be dammed across the valley at approx. SY96578578 to flood the upper half.
- Monitoring of all species should be implemented – check Steve Morrison’s bird report for NT
- A management plan should be drawn up
- The value of peripheral rough habitats to water voles should be noted and these should be protected for this purpose.

Middlebere-Wych Lake west

- Fell trees surrounding lower part of the bed
- Coppice alders on edge of block in central area
- Do ditching/scraping to allow all sections of the bed to flood more from the Corfe River
- Do some initial cutting/burning of the main area to reduce density and allow new growth
- Investigate options for extending wetland management into north and west grasslands
- Monitor for all species – check for water voles (not found on survey though believe heard)
- Draw up a management plan

7. Species lists

7.1 Notable species seen during survey

Middlebere: water vole (fresh signs), snipe

7.2 Records from DERC

Ulex europaeus	Gorse		SY964856	SY98/09/04	Hartland Moor (SMU 4)	29-Apr-85	Wright, Mr R.N.	English Nature (1997)	field record	reedb	303378
Ulex minor	Dwarf Gorse	DN	SY964856	SY98/09/04	Hartland Moor (SMU 4)	29-Apr-85	Wright, Mr R.N.	English Nature (1997)	field record	reedb	303375
Schoenus nigricans	Black Bog-rush	DN	SY964856	SY98/09/04	Hartland Moor (SMU 4)	29-Apr-85	Wright, Mr R.N.	English Nature (1997)	field record	reedb	303372
Molinia caerulea	Purple Moor-grass		SY964856	SY98/09/04	Hartland Moor (SMU 4)	29-Apr-85	Wright, Mr R.N.	English Nature (1997)	field record	reedb	303371
Sphagnum sp.	a bog moss		SY965859	SZ08/04/41	Poole Harbour (SMU 41)	02-Jan-85	McGibbon, Mr R.	English Nature (1997)	field record	slatm/reed b	326791
Hydrocotyle vulgaris	Marsh Pennywort	DN	SY965859	SZ08/04/41	Poole Harbour (SMU 41)	02-Jan-85	McGibbon, Mr R.	English Nature (1997)	field record	slatm/reed b	326789
Juncus subnodulosus	Blunt-flowered Rush	DN	SY965859	SZ08/04/41	Poole Harbour (SMU 41)	02-Jan-85	McGibbon, Mr R.	English Nature (1997)	field record	slatm/reed b	326790

REEDBED ASSESSMENT FORM

Site Middlebere	Grid ref. (site/sample) SY96748609	Owner/contact number National Trust/Guy Hole
Recorder KC	Date: 20/10/00	

Size	<1ha	1-5ha	5-10ha 7.1	>10ha
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Adjacent land use	Arable	Pasture *	Woodland *	Heath *	Reed	Saltmarsh *	Carr	Other Marsh	Other Harbour
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Shape	Linear *	Block	Potential for expansion	minor	Amount or % gain	
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% area of/ presence of	Poor reed 20	Good reed 75	Rush *	Saltmarsh *	Scrub	Pools/ditches *	banks	Other
------------------------	-----------------	-----------------	--------	-------------	-------	-----------------	-------	-------

Water source	Fresh - river/stream *	Fresh - groundwater	Saline - tidal *	Saline with fresh
--------------	------------------------	---------------------	------------------	-------------------

PH (fw)	5.5-5.9	Salinity	0-7%(lower ditch)	Signs of	Deer *	Cattle *	Grazing *
---------	---------	----------	-------------------	----------	--------	----------	-----------

Ditches	Not relevant	Not present	Not functioning	Functioning well *	
Sluices	Not relevant	Not present *	Not functioning	Functioning well	

Water flow	Not obvious	Through bed	Through ditches/stream *	Tidal *	
------------	-------------	-------------	--------------------------	---------	--

Water level above litter cm.	0-2	No water
Leaf litter cm.	0-3	No significant litter

Scrub	0	0-10	10-50	More	Edge *	Scattered
Species	birch, willow, oak, bramble					

REED CONDITION

Height	<1.5	1.5-2.5 * bulk esp. fw area	>2.5 to 3 in saline area		
Density m ²	<100	100-200 *	>200		
Flower spike %	Up to 50 %				
Stem diameter at butt	3-5				
Straightness	All curved	75:25	50:50	25:75	All straight *
Hardness (squeeze at butt end)	Hard *		Soft		

REEDBED ASSESSMENT FORM

Site Middlebere	Grid ref. (site/sample) SY96748609	Owner/contact number National Trust/Guy Hole
Recorder KC	Date: 20/10/00	

Size	<1ha	1-5ha	5-10ha 7.1	>10ha
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Adjacent land use	Arable	Pasture *	Woodland *	Heath *	Reed	Saltmarsh *	Carr	Other Marsh	Other Harbour
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Shape	Linear *	Block	Potential for expansion	minor	Amount or % gain	
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% area of/ presence of	Poor reed 20	Good reed 75	Rush *	Saltmarsh *	Scrub	Pools/ditches *	banks	Other
------------------------	-----------------	-----------------	-----------	----------------	-------	--------------------	-------	-------

Water source	Fresh – river/stream *	Fresh – groundwater	Saline – tidal *	Saline with fresh
--------------	---------------------------	---------------------	---------------------	-------------------

PH (fw)	5.5-5.9	Salinity	0-7%(lower ditch)	Signs of	Deer *	Cattle *	Grazing *
---------	---------	----------	-------------------	----------	-----------	-------------	--------------

Ditches	Not relevant	Not present	Not functioning	Functioning well *	
Sluices	Not relevant	Not present *	Not functioning	Functioning well	

Water flow	Not obvious	Through bed	Through ditches/stream *	Tidal *	
------------	-------------	-------------	-----------------------------	------------	--

Water level above litter cm.	0-2	No water
Leaf litter cm.	0-3	No significant litter

Scrub	0	0-10	10-50	More	Edge *	Scattered
Species	birch, sallow, oak, bramble					

REED CONDITION

Height	<1.5	1.5-2.5 * bulk esp. fw area	>2.5 to 3 in saline area
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Density m ²	<100	100-200 *	>200	
------------------------	------	--------------	------	--

Flower spike %	Up to 50 %
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Stem diameter at butt	3-5
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Straightness	All curved	75:25	50:50	25:75	All straight *
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Hardness (squeeze at butt end)	Hard *	Soft
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REEDBED ASSESSMENT FORM

Site Middlebere – Wych Lake west	Grid ref. (site/sample) SY96758552	Owner/contact number National Trust
Recorder KC	Date: 20/10/00	

Size	<1ha .61	1-5ha	5-10ha 7.1	>10ha
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Adjacent land use	Arable	Pasture *	Woodland *	Heath	Reed	Saltmarsh	Carr *	Other Marsh *	Other Harbour
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Shape	Linear	Block *	Potential for expansion	Yes	Amount or % gain	100 or more ?
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% area of presence of	Poor reed 50	Good reed 50	Rush *	Saltmarsh	Scrub	Pools/ditches *	Banks *	Other
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Water source	Fresh – river/stream *	Fresh – groundwater *	Saline – tidal	Saline with fresh
--------------	---------------------------	--------------------------	----------------	-------------------

PH (fw)	6.4	Salinity	Signs of	Deer *	Cattle	Grazing
---------	-----	----------	----------	-----------	--------	---------

Ditches	Not relevant	Not present	Not functioning	Functioning well *
Sluices	Not relevant *	Not present	Not functioning	Functioning well

Water flow	Not obvious	Through bed	Through ditches/stream *	Tidal
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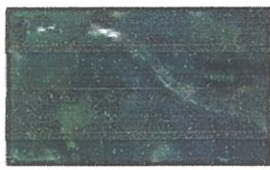
Water level above litter cm.	0 in north, 30 in south	No water
Leaf litter cm.	6	No significant litter

Scrub	0	0-10	10-50	More	Edge *	Scattered
Species	birch, willow, alder					

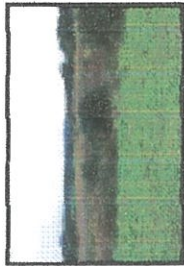
REED CONDITION

Height	<1.5	1.5-2.5 approx. 2	>2.5		
Density m ²	<100	100-200 *	>200		
Flower spike %	Up to 50 %				
Stem diameter at butt	4-5				
Straightness	All curved	75:25 *	50:50	25:75	All straight *
Hardness (squeeze at butt end)	Hard *		Soft		

Middlebere Reedbed JPGs



Aerial M.jpg



P0000648.JPG



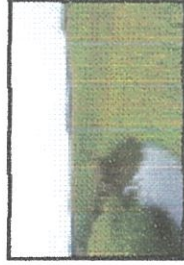
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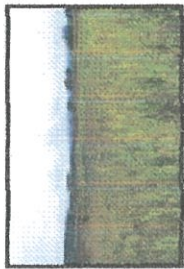
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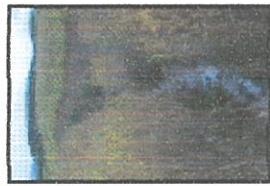
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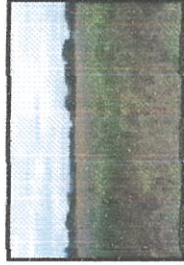
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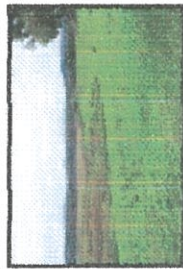
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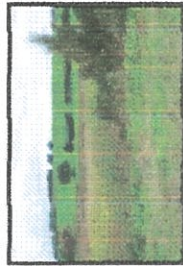
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Middlebere Reedbed JPGs



P0000668.JPG



P0000671.JPG



P0000672.JPG



P0000673.JPG



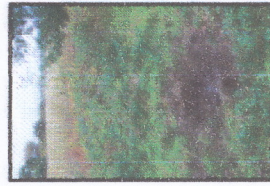
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**Dorset Environmental
Records Centre**

**POOLE HARBOUR
REEBEDS SURVEY (2000)
11. South Middlebere**

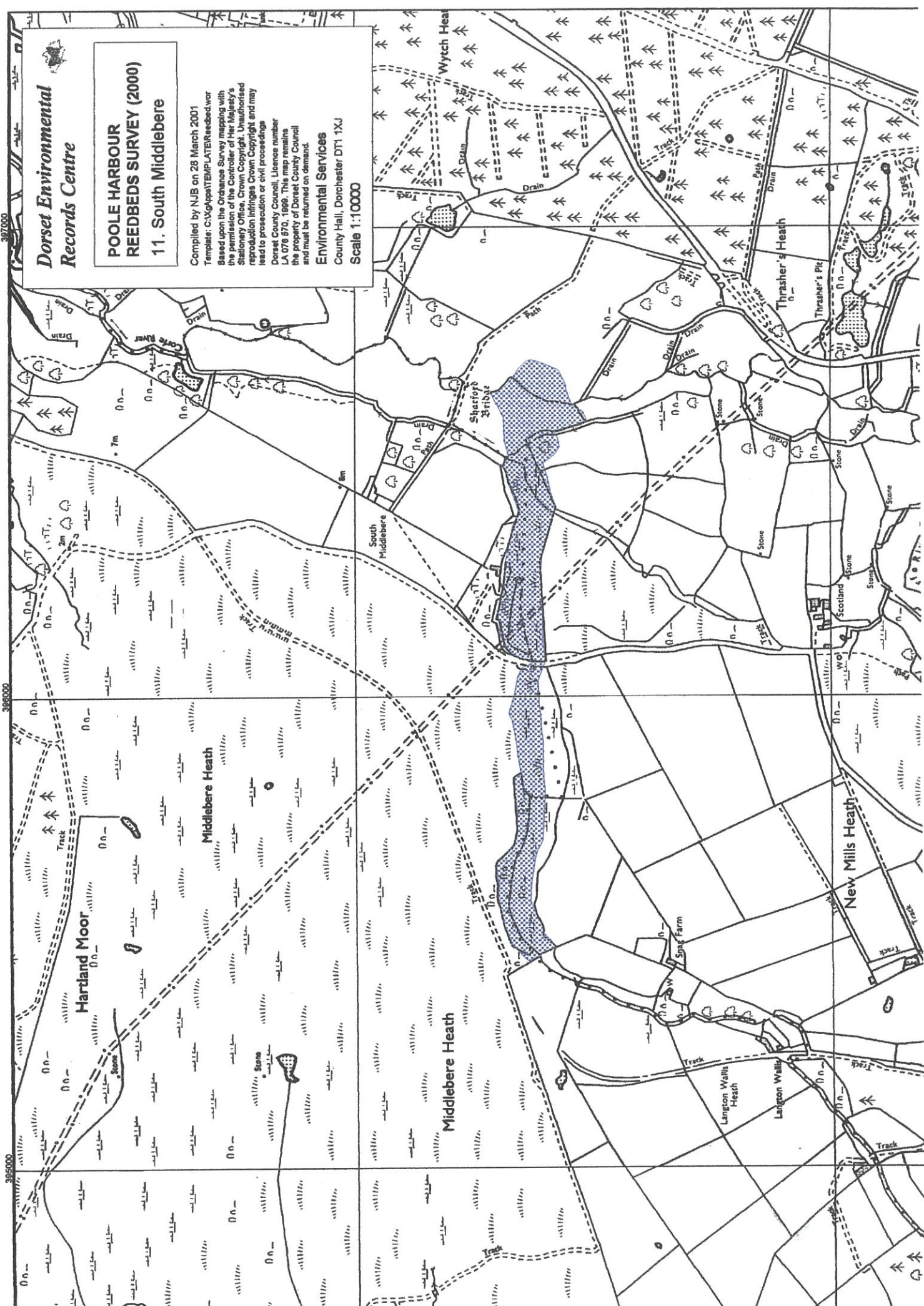
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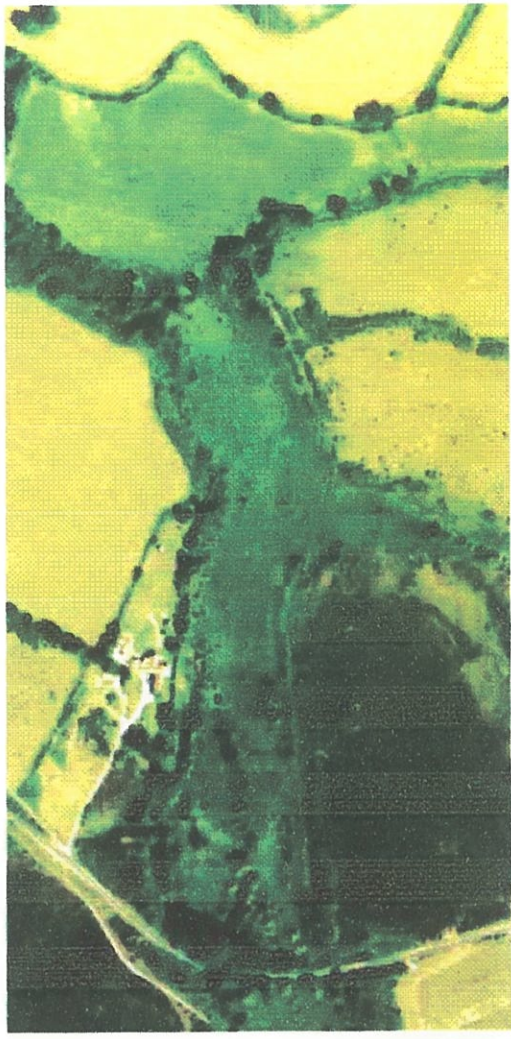
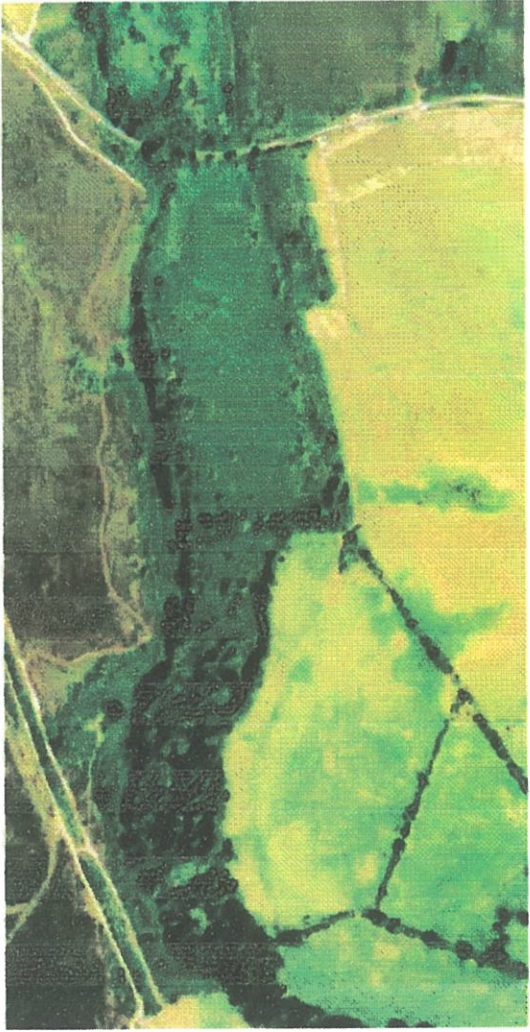
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Scale 1:10000





11. SOUTH MIDDLEBERE WEST AND EAST

11. The SOUTH MIDDLEBERE REEDBEDS

Grid Ref. South Middlebere E and W: SY961847

Date surveyed: 23/10/00

1. Summary

1.1 Table

Key features	Summary
Reedbed area (hectares)	9.87
Hydrology	Fresh (Corfe river) pH6
Condition	Good
State	Stable - slow decline
Adjacent to	heath, woodland, carr, grassland
Mgmt. Problems	Scrub encroachment
Notable sp.	WV, Nemoura dubitans (stonefly)
Current mgmt.	Some carr cutting in recent past
Expansion opportunities ?	In east
Management opportunities ?	Yes – digging esp.

1.2. Quick Reference map



1.3 Key features

- An important reedbed with much biodiversity potential
- Divided into two sections by the Slepe-Corfe road – West and East
- Diverse freshwater reedbed with a plentiful supply of water from the Corfe River
- Open water in western section
- Scrub encroachment a problem
- Deer and cattle present – cattle only in northern margin of western section
- Managed by EN as part of Hartland Moor
- Notable species present including water voles and a rare stonefly
- Part of a complex of rich habitats
- Opportunities for management and possible extension in the east

2. Site Description

This reedbed is not within the Poole Harbour Ramsar/Spa boundary but is a SSSI

2.1 General

This is the only reedbed within the survey to be part of a natural system completely away from the tidal influence in Poole Harbour (Brownsea RB1 has similar qualities but is artificial) being inland and part of the hydrology of the Corfe River. The river has incised a deep valley at this point which is filled by the reedbed and carr which effectively absorbs the course of the river – the ground rises steeply away from the bed on its northern and southern sides. The western bed is surrounded by alder and willow carr, the eastern is more scrubby with gorse around the edge and only carr near its western end by the road and in the farthest east.

2.2 Access

By prior permission only. Both sides can be accessed from the dividing road. The eastern section is fenced off from the heath. The western section has particularly deep water and much of it is inaccessible because of this.

3. Site History

Not known. Evidence of ditching and banking within and around western reedbed. Some carr cutting in western carr for southern damselfly management. Not aware of any conservation management within the reedbed. The eastern section is fenced to prevent grazing animals entering it from the heath.

4. Current Management

Not aware of any other than carr cutting as above

5. Survey Results

5.1 Western Reedbed

Aerial photos: DCC 21-0174 see also *SM-west aerial.jpg* on CDROM
Site photos: 695-732

This is a diverse reedbed containing areas of carr, bog and fen. The bed fills the valley of the Corfe River which is a distinct water course in the far west under the carr but becomes diffused by the reedbed – the waters meet again where they are culverted under the road by a small patch of carr (photo 695). Along the northern margin is bracken, willow, bog myrtle and alder forming an intermediate zone with the heath (photos 696-698). Its southern margin is denser woodland with pasture (photo 714). The ground rises steeply away from the bed in the north and south offering no opportunities for expansion.

The reedbed is generally dense, especially in the eastern half of this section where there is a large mass of reed. The further west the more scrub – there is also a tree lined causeway bank cutting into the bed from the north at SY95798462 (photo 728) though this does not go completely across. There is a ditch on the western side of this bank.

The western section is characterised by patches of reed divided by willow, bog myrtle, hemp agrimony etc. – evidence of scrub encroachment. There is plenty of water however: the presence of scrub is more an indicator of the lack of management rather than drying out. At the far western end the willows are covered in lichens and where some have been felled (probably for southern damselfly management) there is a good mixed marsh habitat with shallow pools (7cm) and marsh flora of marsh pennywort, water mint, soft rush, water parsnip, celery leaved buttercup, nettles, hemp agrimony, nettles etc. Cattle come here to graze from the heath

Floating bog type habitat appears in places eg. SY 95758460 with water mint, marsh pennywort, bog myrtle etc. – the water is deep in these sections.

Cattle enter the marsh east of the causeway but both cattle and sika deer are limited by water depth. Sika tracks are evident creating deep ditches but there is no significant damage – the water depth may be preventing the deer from grazing the scrub which is why it is encroaching.

Reeds in this bed are tall, dense but virtually all curved. The diversity of the bed (plant species/scrub) is a result of a build up of leaf litter and although there is plenty of water the bed is showing signs of degradation throughout and scrub is a problem (photo 732). The diversity and amount of rush and non reed vegetation will encourage better survival of water voles and invertebrates and any management will have to take this into account. Good lichen populations and the possibility of trunk dwelling Lepidoptera advise a cautious approach to coppicing or felling (any coppicing on dry land will encourage browsing by deer and loss of the coppice stool). At the moment it is a rich and interesting habitat but it will probably grow into a bog myrtle/alder thicket if left.

5.2 The eastern reedbed

Aerial photos: see *SM east aerial.jpg* on CDROM

Site photos: 733-753

This is the eastern continuation of the South Middlebere reedbed. Its character is quite different - it is fringed with gorse and steeply banked and ditched and fenced from grazing animals in the south. There is free water in the bed (photo 737) but it is much shallower than the western section with a considerable amount of bog myrtle (photo 736).

The southern ditch joins a ditch in the lower field which continues down to the Harbour. There are good margins with the heath and acid grassland in the south with a fen type habitat protruding south centrally (photo 747).

This reedbed is rapidly becoming scrub.- especially at the western end. All the reeds are curved and there is a high mix of other plant species, especially in the west. There is some urgency to do management work here.

The watercourse continues east through farmland – in theory there should be possibilities here to extend this bed considerably if these fields could be acquired (photo 753)

5.3 Photographic record held on CD ROM

South Middlebere – western reedbed

Photo Number P0000.....	Reedbed	Grid Reference	Direction (taken)	Notes
695	SM-W			Alder carr next to road – strong flow of water
696				Northern heathland edge to bog myrtle, sallow alder
697			W	From northern side – reed growth poor this year – 40-50cms less than last year's
698		95778465		Northern edge – bank and ditch partly across reedbed (with trees)
699		95658467	SE	Most westerly section – fw. carr Hydrocotyle, rushes, open water, bog myrtle etc, open water 7cms deep
700			W	Alder carr and rush – extensive, lichen covered trees -mainly sallows, some birch
702				Lichen covered sallows
708				As above
709				Evernia prunastri and Usnea subfloridiana
710				Parmelia caperata

714				Pasture and thick hedge on northern side – could be improved for wildlife but few wetland opportunities except scraping back and creating pools at western end – too high above the bed in the east.
715				Western end of reedbed – few reeds, plenty of willow. Could be pollarded ? (coppice would be better but will get eaten) Could this bed be fenced from deer (Note some cattle from heath do go in)
716		95708463		Corfe stream separates bed from carr (southern side)
721				Lichen
722				Deep Sika deer tracks which could act as drains during dry weather. Cardamine, Aegopodium, rushes in bed
723		95728462	N	Patches of reed divided by willow, bog myrtle, hemp agrimony
724			E	Large central section of reed
726				Signs of water vole
727		95758460	E	Floating bog of soft and hard rush, Hydrocotyle, water mint, bog myrtle
728		95798462	N	Central bank with ditch on left
729				Central bank with ditch on right – could coppice/ remove willows and open up pools for dragonflies
730		95818471	SE120	
732			W	Looking up reedbed from heathland on north side

South Middlebere -Eastern reedbed

Photo Number P0000	Reedbed	Grid Reference	Direction taken	Notes
733	SM-E			View of reedbed from southern heathland
734		96178461	E	Looking down length of reedbed
736				“ lots of water and good flowering. High bog myrtle content
737				Reed showing water in bed
738				Panorama of 6 shots : A, Looking north across bed showing gorse edge to south and wooded edge to north
739				B
740				C
741				D
742				E
743				F Eastern end
744				Terminal section branching south
745		SY96338456	NE70	Slope of heath producing wet flushes to reedbed. Scrub in bed – machine work?
746				Grazing and flushes at edge of SE section
747		96318445		Bog on right, bank central left and ditch which feeds most southeastern end of reedbed
748		96478457	W	Final 3 of panorama: A
749		96478457		B Southeastern edge of bed
750		96478457		C Southeastern edge of bed
751		96478457		D
752				Acid grassland at eastern end
753			W	Far eastern end – improved field with ditch which follows edge of field (flowing north and east)

5.4 Other references

- Preliminary Survey of the Reedbeds around Poole Harbour (Price and Pickess) 1993
- Reedbed Survey 1996
- EN Management Plan ?

6. Recommendations

General:

- Produce a species list including lower plants
- Record breeding birds
- Monitor water vole population
- Record wintering birds – this could be a suitable site for wintering bittern
- Conduct invertebrate studies – these should be excellent reedbeds for Odonata, Lepidoptera and other reedbed specialists

Western reedbed

- Produce plans for excavating reedbed, initially west of causeway
- Pollard some more surrounding alder/sallow and generally do some scrub management to maintain patches of scrub in good condition for nesting birds
- Keep an eye on the grazing of cattle and deer – currently it is not a problem (the reverse may be true with scrub encroachment).

Eastern reedbed :

- Produce plans to excavate the western part of this reedbed
- Investigate possibility of extending wetland further east into the farmland

7. Species lists

7.1 Notable species seen during survey

Water vole, snipe

7.2 Notable species recorded by CEH

Nemoura dubitans (a stonefly) at SY965847 (lower part of eastern reedbed) R. Wiggins, CEH 2000

7.3 Records from DERC

<i>Cladonia arbuscula</i>	a lichen	DN	SY961852	SY98/09/04	Hartland Moor (SMU 4)	Feb-94	Davey, Mr S.	English Nature (1997)	field record	reedb	303489
<i>Crassula tillaea</i>	Mossy Stonecrop	Nationally Scarce	SY958847	SY98/09/04	Hartland Moor (SMU 4)	06-May-95	Cox, Mr J.H.S.	English Nature (1997)	field record	reedb	303412
<i>Filipendula ulmaria</i>	Meadowsweet		SY954846	SY98/09/04	Hartland Moor (SMU 4)	Apr-85	Wright, Mr R.N.	English Nature (1997)	field record	reedb	303242
<i>Ornithopus perpusillus</i>	Bird's-foot	DN	SY958847	SY98/09/04	Hartland Moor (SMU 4)	06-May-95	Cox, Mr J.H.S.	English Nature (1997)	field record	reedb	303411
<i>Ulex europaeus</i>	Gorse		SY954846	SY98/09/04	Hartland Moor (SMU 4)	Apr-85	Wright, Mr R.N.	English Nature (1997)	field record	reedb	303238
<i>Ulex europaeus</i>	Gorse		SY959846	SY98/09/04	Hartland Moor (SMU 4)	Apr-85	Wright, Mr R.N.	English Nature (1997)	field record	reedb	303228
<i>Symphytum officinale</i>	Common Comfrey		SY954846	SY98/09/04	Hartland Moor (SMU 4)	Apr-85	Wright, Mr R.N.	English Nature (1997)	field record	reedb	303243
<i>Mentha aquatica</i>	Water Mint		SY954846	SY98/09/04	Hartland Moor (SMU 4)	Apr-85	Wright, Mr R.N.	English Nature (1997)	field record	reedb	303245
<i>Lonicera periclymenum</i>	Honeysuckle		SY954846	SY98/09/04	Hartland Moor (SMU 4)	Apr-85	Wright, Mr R.N.	English Nature (1997)	field record	reedb	303246

Juncus effusus	Soft Rush	SY954846	SY98/09/0 4	Hartland Moor (SMU 4)	Apr-85	Wright, Mr R.N.	English Nature (1997)	field record	reedb	303244
Aira praecox	Early Hair- grass	DN SY958847	SY98/09/0 4	Hartland Moor (SMU 4)	06-May- 95	Cox, Mr J.H.S.	English Nature (1997)	field record	reedb	303410
Molinia caerulea	Purple Moor- grass	SY954851	SY98/09/0 4	Hartland Moor (SMU 4)	Apr-85	Wright, Mr R.N.	English Nature (1997)	field record	reedb	303309

REEDBED ASSESSMENT FORM

Site South Middlebere	Grid ref. (site/sample) SY95748463	Owner/contact number National Trust (managed by EN)
Recorder KC	Date: 23/10/00	

Size	<1ha	1-5ha	5-10ha 9.87	>10ha
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Adjacent land use	Arable	Pasture *	Woodland *	Heath *	Reed	Saltmarsh	Carr *	Other Marsh *	Other
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Shape	Linear	Block *	Potential for expansion	* in east	Amount or % gain	?
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% area of/ presence of	Poor reed 20	Good reed 50	Rush *	Saltmarsh	Scrub *	Pools/ditches *	Banks *	Other
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Water source	Fresh – river/stream *	Fresh – groundwater	Saline – tidal	Saline with fresh
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PH (fw)	6	Salinity	Signs of	Deer *	Cattle *	Grazing slight
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Ditches	Not relevant	Not present	Not functioning	Functioning well *	Not management ditches
Sluices	Not relevant*	Not present	Not functioning	Functioning well	

Water flow	Not obvious	Through bed *	Through ditches/stream *	Tidal	
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Water level above litter cm.	0-30 plus	No water
Leaf litter cm.	30	No significant litter

Scrub	0	0-10	10-50 *	More	Edge *	Scattered
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Species	bog myrtle, sallow, alder
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REED CONDITION

Height	<1.5	1.5-2.5 *	>2.5
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Density m ²	<100	100-200 *	>200	
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Flower spike %	60
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Stem diameter at butt	5-9 mm
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Straightness	All curved	75:25 *	50:50	25:75	All straight
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Hardness (squeeze at butt end)	Hard *	Soft
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South Middlebere west Reedbed JPGs



P0000695.JPG



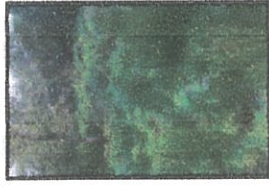
P0000696.JPG



P0000697.JPG



P0000698.JPG



P0000699.JPG



P0000700.JPG



P0000702.JPG



P0000708.JPG



P0000709.JPG



P0000710.JPG



P0000714.JPG



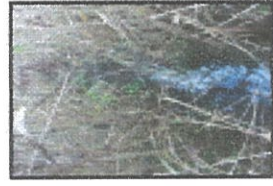
P0000715.JPG



P0000716.JPG



P0000721.JPG



P0000722.JPG



P0000723.JPG



P0000724.JPG



P0000726.JPG

[1]

South Middlebere west Reedbed JPGs



P0000727.JPG



P0000728.JPG



P0000729.JPG



P0000730.JPG



P0000732.JPG



SM aerial 1.jpg



SM-west aerial.jpg

12. WYCH LAKE (EAST) REEDBED

Grid ref. SY 986857

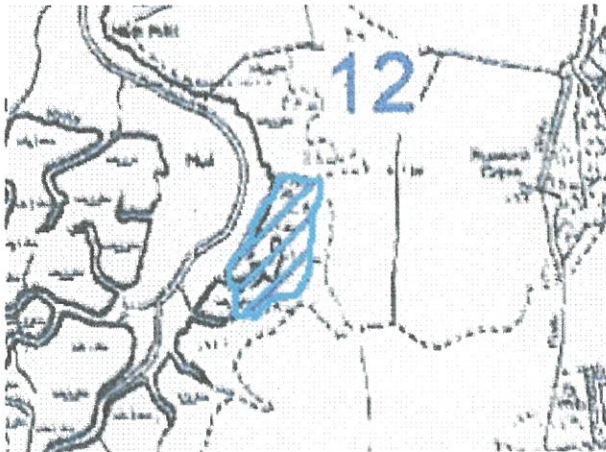
Survey Date: 24/10/00

1. Summary

1.1 Key features

Key features	Summary
Reedbed area (ha.)	1.57 (from corrected map)
Hydrology	Saline, tidal, some minor fw influence
Condition	Good to Poor
State	Declining in parts
Adjacent to	Saltmarsh, woodland/scrub, fw marsh, pasture, Harbour
Mgmt. Problems	Cattle grazing by (Sika unknown effect)
Notable sp.	Snipe
Current mgmt.	None
Expansion opportunities ?	No
Management opportunities ?	Keeping cattle out

1.2 Quick Reference map



1.3 Summary

- A small reedbed alongside an eastern creek of Wych Lake
- A few good reed areas towards the creek but much cattle trampling in the southern area near the fields
- Good edge habitats – small freshwater bog component against wooded scarp
- No notable species known.
- All tidal with freshwater ditch and flushes from the east (pH 6.9).
- No water management practical or relevant
- Main management problem is caused by grazing cattle, otherwise no management opportunities

2. Site Description

The reedbed is within the Poole Harbour SPA, SSSI and Ramsar boundaries

2.1 General

This is not associated with any other larger reedbeds in the area and probably has only minor wildlife value

2.2 Access

No public rights of way exists. All access by prior arrangement and permission from the Rempstone Estate. Access is by taking the BP Wych Farm road from Corfe, driving towards Goathorn and stopping beyond the causeway across the Wych Channel. The reedbed is reached by walking across a field to the north of the road. It is quite safe to walk through the bed.

3. Site History

Not known

4. Current Management

None

5. Survey Results

5.1 General

Extending between saltmarsh of the Harbour and the edge of a sloping field this reedbed covers an intertidal zone. Its western edge stops abruptly at the mud of the creek (photos 761, 766 773) but there is soft estuarine mud throughout much of the bed (photo 767). This makes the ground susceptible to rapid damage by cattle which walk in tracks through the bed (photos 764, 765, 775). and particularly assemble on a small area of freshwater marsh (photo 772) where the reeds are trampled. Cattle damage looks relatively recent and has probably not been going on for years or if so only at a light level.

There is a flow of freshwater from the field and below a scrub covered scarp along the eastern edge. In the south there is an open grassy marsh with sedges, marsh pennywort, water mint etc. (photos 757, 759 776, 777) which receives water from the edge of the field (photo 778). Further north against the scrub is a bog myrtle/ water mint/bog pimpernel etc. bog at SY98498584 (photos 757 770) where the cattle assemble sometimes.

Generally there is good dense reed with a high flowering rate at the saline Harbour edge (photos 761, 762, 768) which grades into saltmarsh in the north (photos 773, 774).

There is a small ditch with a strong freshwater flow (at low tide) running across from the fields through the bed to the Harbour in the south (photo 763).

There is a small reedbed to the south of the main reedbed of good quality reed, ungrazed.

See aerial photo/diagram at end of report

5.2 Photographic record held on CD ROM

Photo	Reedbed	Grid	Direction	Notes
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Number P0000...	Reference	taken	
756			General view from road
757			From southernmost tip of main bed, low bank on right is edge of field which slopes to marsh (lightly grazed, unfenced)
758			Smaller section of reedbed in south – high rate of flowering
759			Wych – southern section – cattle grazing damage, plus freshwater pools which seep from slope
760		SE130	From saltmarsh – good reed on left, fw section ahead heavily cattle damaged
761			Southern edge of reedbed – western edge against Harbour – v. tall reeds (saline)
762	98398574	NE60	Southern end
763			Ditch running from fields to Harbour (FW ? strong flow)
764			Where cattle cross ditch
765			Cattle track through reedbed to Harbour edge
766	98428577	N	
767			Gradation from open short reed (regularly waterlogged) to taller 2m. reed (occ. waterlogged)
768			Low density but high flowering rate – almost every stem
769			Saltmarsh and cattle damage close to shore
770	98498584		Bog myrtle, water mint etc – relic bog
771		NW300	View from saltmarsh at northeast end
772		S	View looking south from NE corner – cattle damage
773		S	From north showing Wych Lake
774			From north showing saltmarsh
775			Smelly, muddy broken reeds – cattle damage
776			Small acid fw bog with sedges, marsh pennywort, water mint
777			“
778			View from field in south

5.3 Other references

Preliminary Survey of the Reedbeds around Poole Harbour (Price and Pickess) 1993
 Reedbed Survey 1996

6. Recommendations

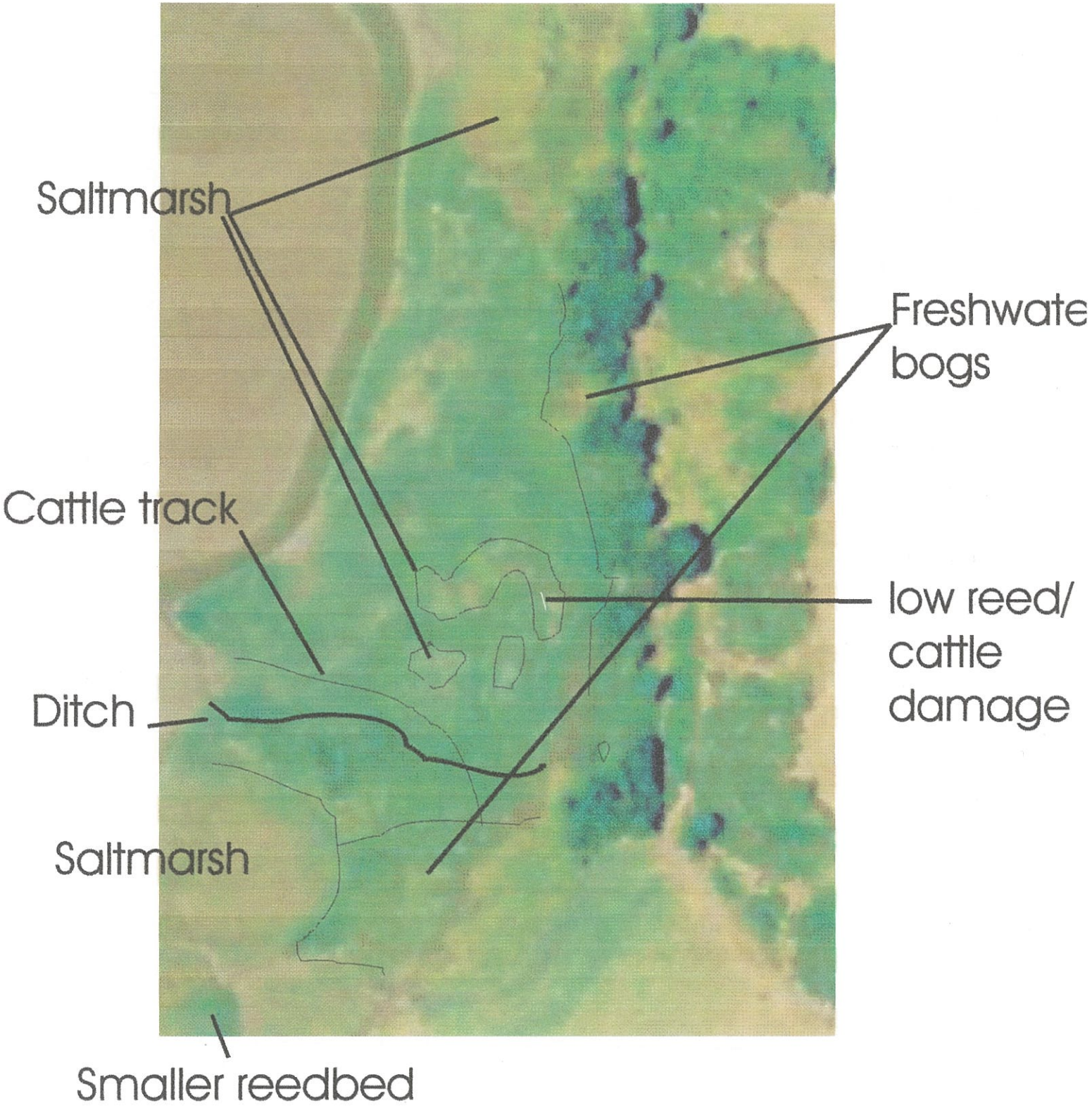
- Consider prevention of cattle access
- Survey freshwater areas for plants and invertebrates
- Do breeding bird survey

7. Species list

Snipe flushed during survey

Nothing is known about the wildlife of this bed though it is large enough to probably support one or two pairs of reed warblers, water rail and possibly reed bunting

WYCH REEDBED



REEDBED ASSESSMENT FORM

Site Wych	Grid ref. (site/sample) SY98448579	Owner/contact number Rempstone Estate
Recorder KC	Date: 24/10/00	

Size	<1ha	1-5ha 1.57	5-10ha	>10ha
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Adjacent land use	Arable	Pasture *	Woodland *	Heath	Reed	Saltmarsh *	Carr	Other Marsh *	Other Harbour
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Shape	Linear	Block *	Potential for expansion	No	Amount or % gain
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% area of presence of	Poor reed 40	Good reed 45	Rush	Saltmarsh 15	Scrub	Pools/ditches *	banks	Other
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Water source	Fresh – river/stream	Fresh – groundwater *	Saline – tidal *	Saline with fresh
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PH (fw)	6.91 in fw area	Salinity	10 – 20% sea	Signs of	Deer	Cattle *	Grazing *
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Ditches	Not relevant *	Not present	Not functioning	Functioning well
Sluices	Not relevant *	Not present	Not functioning	Functioning well

Water flow	Not obvious	Through bed	Through ditches/stream *	Tidal *
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Water level above litter cm.		No water * low tide
Leaf litter cm.		No significant litter *

Scrub	0	0-10	10-50	More	Edge *	Scattered
Species	Oak, sallow, bog myrtle, birch					

REED CONDITION

Height	<1.5	1.5-2.5 1.5-2	>2.5
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Density m ²	<100 *	100-200	>200
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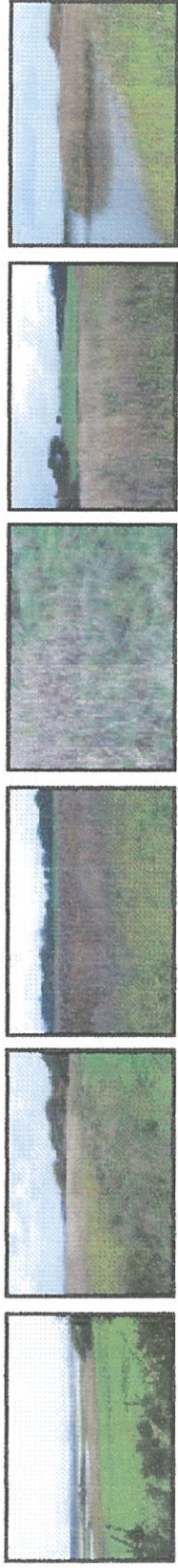
Flower spike %	Nearly 100 where Not trampled
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Stem diameter at butt	5
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Straightness	All curved	75:25	50:50	25:75	All straight *
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Hardness (squeeze at butt end)	Hard *	Soft
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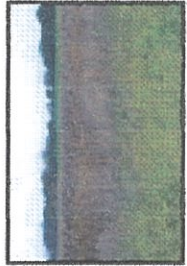
Wych Reedbed JPGs



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P0000757.JPG



P0000758.JPG



P0000759.JPG



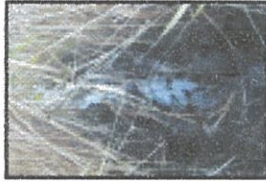
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P0000761.JPG



P0000762.JPG



P0000763.JPG



P0000764.JPG



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P0000766.JPG



P0000767.JPG



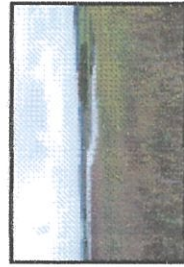
P0000768.JPG



P0000769.JPG



P0000770.JPG



P0000771.JPG



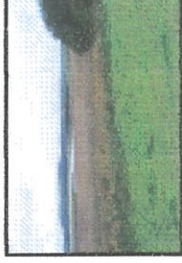
P0000772.JPG



P0000773.JPG

Name: Wych Reedbed jpgs contact001.bmp
Dimensions: 640 x 480 pixels

Wych Reedbed JPGs



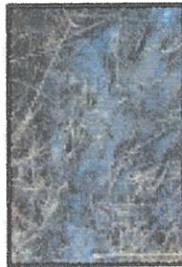
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P0000775.JPG



P0000776.JPG



P0000777.JPG



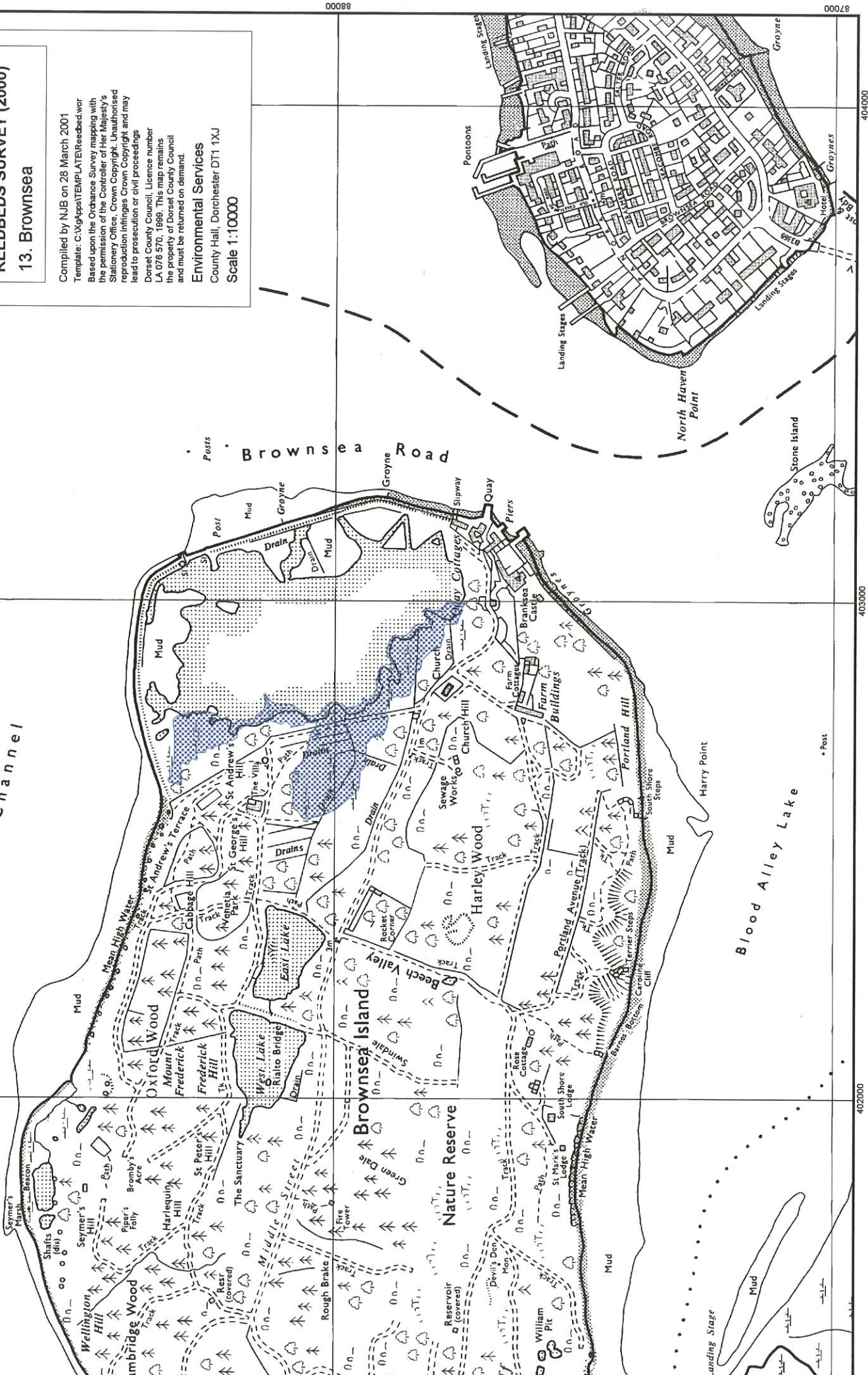
P0000778.JPG

B O U R

Wych Channel

POOLE HARBOUR REEBEDS SURVEY (2000) 13. Brownsea

Compiled by NUB on 28 March 2001
 Template: C:\XgApp\TEMPLATE\Reebeds.wor
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 Scale 1:10000



00088

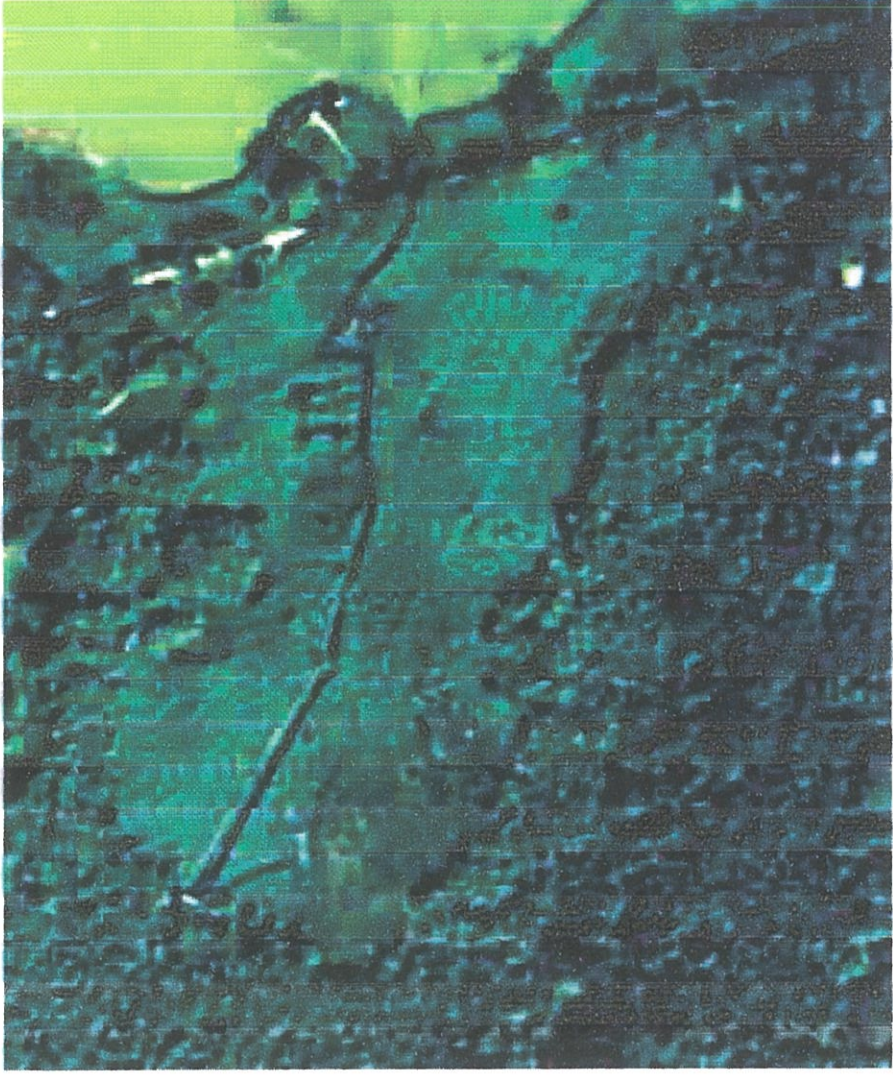
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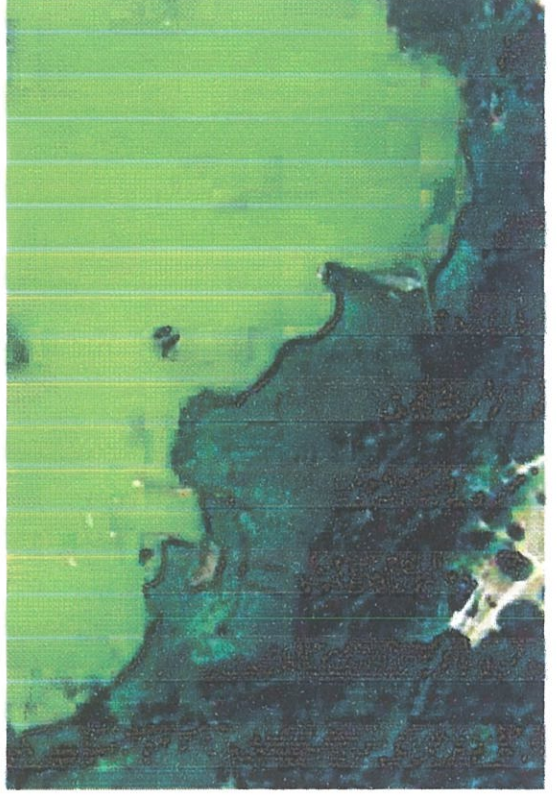
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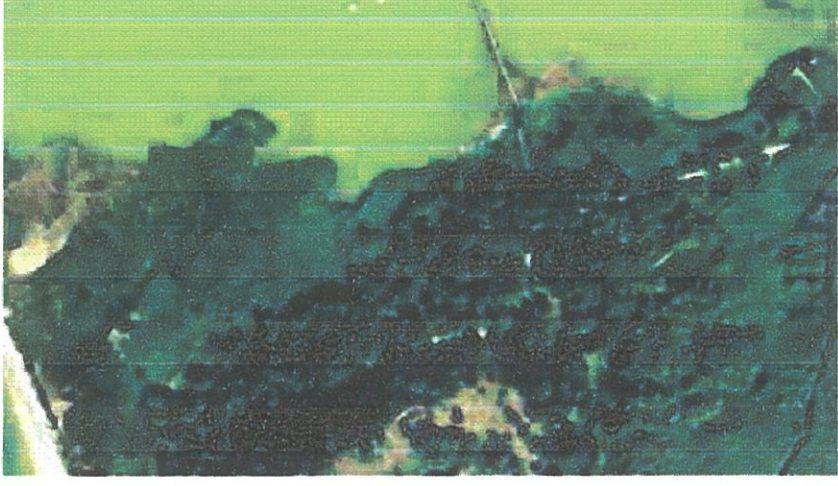


1.

13. BROWNSEA REEDBEDS



2.



3.

13. BROWNSSEA ISLAND REEDBEDS

Grid Ref. SY028878

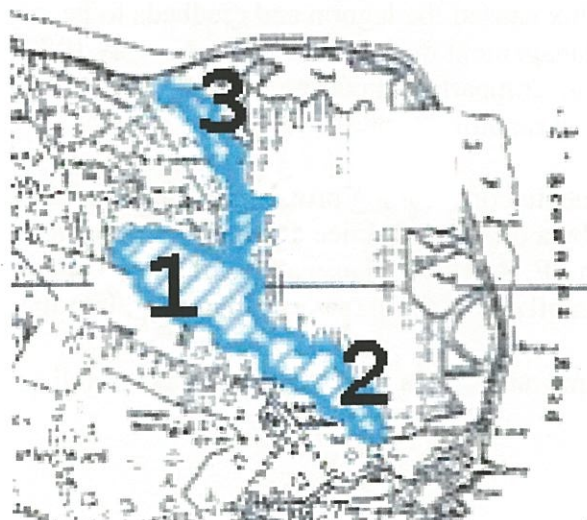
Date surveyed: 19/10/00

1. Summary

1.1 Table

Key features	Summary
Reedbed area (hectares)	5.63 (3 reedbeds)
Hydrology	Fresh, minor saline influence at edge of 2 and 3
Condition	Good
State	Stable (slow decline in 2)
Adjacent to	lagoon, mixed woodland, carr,
Mgmt. Problems	Variable deer grazing, drying in 2. Limited by size
Notable sp.	RB, WR, RW, SC(old records), Sn. , BT (rare), WV Wainscot moths, Nemoura dubitans (stonefly)
Current mgmt.	Ditching, water control, some cutting, pollarding
Expansion opportunities ?	minor
Management opportunities ?	Reversal of drying, cutting, coppicing etc.

1.2. Quick Reference map



1.3 Key features

- 3 reedbeds at the end of a broad valley where fresh water pours into a saline lagoon – 1 is in the valley and totally fresh, 2 and 3 fringe the lagoon
- 1 is a good quality reedbed with a continuous source of fresh water which flows through the bed, 2 and 3 are drier but with fresh water from flushes and ditches
- Part of an important wetland complex
- Management occurs already including, ditching, water control and cutting

- Able to control water levels and drain down in reedbed 1
- Management Plan in place to 2003
- Notable species present including water voles and Odonata
- Constant effort monitoring with records going back to the early 1960s

2. Site Description

The whole of the Brownsea reedbed is within the Poole Harbour SPA, SSSI and Ramsar boundaries

2.1 General

Though relatively small this particular complex of reedbeds is important because of its association with other wetland features: acid lakes and pools, fen/bog, carr, acid grassland, and a saline lagoon which form a complete wetland system

2.2 Access

By prior arrangement with the DWT warden (01202 709445). Brownsea Island can only be accessed by boat from Poole Quay or Sandbanks (public boats only run April to September incl.) The reedbeds are sited within the DWT nature reserve 1 and 2 are visible from the nature trail and hides. Any researcher will have to get permission. Reedbed 1 is tricky to walk through because of deep water and hidden ditches, 2 and 3 are OK.

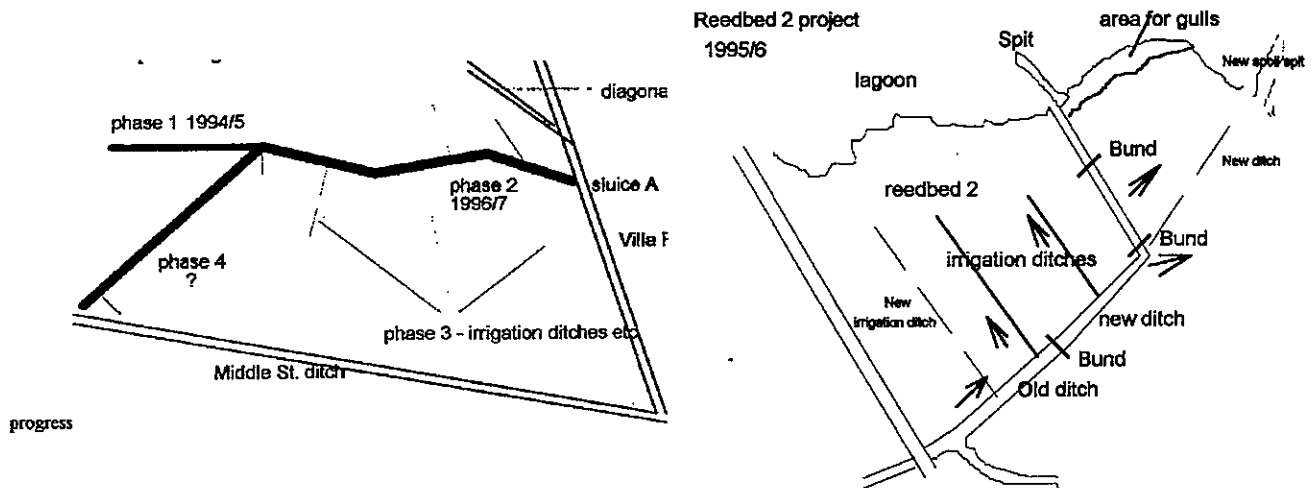
3. Site History

The lagoon and reedbed areas were reclaimed from the Harbour by building a seawall in the 1850s. The land was drained by ditches and windpump and reclaimed as grazing land. Neglect from the 1930s caused the drainage to be impeded and water build up and tidal influx caused the lagoon and reedbeds to become established. The reedbeds probably date from the 1940s. Management during the 1970s and early 1980s was limited to scrub removal and some compartment cutting. Compartment cutting was stopped in the mid 1980s due to sika deer damage. Reeds are cut annually in random corridors.

(See diagrams below) Since 1994 ditching has been implemented on a rolling program in all 3 reedbeds with particular effort in 1 and 2. Levels in 1 are controlled by a dropboard sluice against the causeway which crosses the lagoon/reedbed complex centrally NW to SE. Reedbed 2 has a series of simple bunds that cause improved flooding of the bed. Reedbed 3 has a small ditch taking water from a pond into the bed.

In 1994 a pump was fitted to the lagoon to control maximum water levels which also prevents flooding of the bed.

Ditching diagrams from Management plan:



Reedbed 1

Reedbed 2

4. Current Management

Annual and capital program : water control, ditch, bund and sluice maintenance. Ditch maintenance is by mini –digger. Work done in 2000 to extend ditch in reedbed 2, plans to dig another parallel to the causeway to irrigate 2 better. Reeds are cut in random corridors. Surrounding alder and sallow pollarded – some brash is stacked to provide edge scrub type habitat and some logs are corded to provide hibernaculum. The lagoon is flooded for periods in the winter to maintain wetland status quo. See DWT's Management Plan.

5. Survey Results

General Note: Sika deer have been a problem in the Brownsea beds, particularly during the 1980s, grazing cut compartments and preventing regeneration. These days their influence is limited to tracks. They do however have one advantage – they stop scrub (sallow/alder) encroachment on the reedbeds – no management in this direction is currently needed. One disadvantage is that trees cannot be coppiced to produce a better effect as regrowth gets eaten.

5.1 Reedbed 1

Aerial photos: DCC 22-0313 see also *Brsea aerial RB1.jpg* on CDROM

Site photos: 608-634

The upper reedbed (1) is surrounded on three sides by alder and sallow carr and receives a steady supply of freshwater from a source in the West Lake further west up the valley. At its eastern end it is held back by a causeway (photo 608) which possesses a dropboard sluice which controls the levels and the flow into the saline lagoon further east (photo 610). This keeps its water approximately .75 metre higher than the lagoon (depending upon rainfall). Water is acid about pH5 and flows freely through the bed and ditch. The hydrology is: water flowing down the central ditch (photos 611, 624, 625) is held back by the sluice. Water then floods back up the ditch and north and south into the bed. Water also flows into the bed from carr woodland in the west and south.

This keeps the bed wet most of the year – open water extends through the reedbed and into surrounding rush mire (photo 612, 615, 618). Deer aid this irrigation by creating tracks through the bed (photo 623) which also aids dispersal of sticklebacks and invertebrates. Water voles have had a long recorded presence in this reedbed and signs were found on this visit (photo 617). Banks and areas of rush, both within and around this reedbed provide an additional important habitat for water voles, invertebrates and snipe. The rush area, in front of the boardwalk hide, created by digging one of the control ditches, has proved to be valuable for snipe and jack snipe (photo 624).

Past pollarding and ditching have created a good mix of open water, important for Odonata, nesting and feeding ducks (teal and occasionally gadwall) (photos 611, 618, 622 etc.)

Reed height is variable, generally around 1.5 – 1.8 metres with a good density and quality. There are some curved reeds in the south but few.

The surrounding alder carr is being managed in blocks of coppicing and pollarding - willows and alder are pollarded (photo 619) creating more light and encouraging rushes and other plants (Marsh St Johns wort, Potamogeton etc.) at the edge of the bed (photo 627) and in the central ditch. Pollarding is favoured as deer eat regrowth and also pollarding supports trunk dwelling Lepidoptera.

This reedbed is in good condition with a wide diversity and plenty of fresh and open water.

5.2 Reedbed 2

Aerial photo: see *Brsea aerial RB2.jpg* on CD ROM

Site photos: 599-605

This small reedbed is intermediate between RB1, mixed woodland and the saline lagoon. It gains water from general drainage from the surrounding land in the south and west and from ditching done in the past few years (photos 599, 602). Reed density is good (supports nesting reed warblers) but there is a high proportion of curved reeds. In recent years the bed has been made wetter by ditching to counteract the process of drying out. This seems very slow but will need addressing. More ditching to irrigate the eastern part of this bed occurred in 2000 and further ditching is planned to irrigate the western section where the reeds are curved most (photo 605).

5.3 Reedbed 3

Aerial photos: see *Brsea aerial RB3.jpg* on CDROM

Site photos: 635- 644

This bed extends northwards from the bird hides to the sea wall on the lagoon side of the causeway (photo 635). It has never been a high quality reedbed being built on quite dry land and occasionally suffering from high lagoon waters (saline). There is an abrupt end to the reedbed where it meets the lagoon 'high water' mark (photo 636). Generally the water feeding the bed is fresh (in ditch SY02748826: .2% seawater recorded) though water near the seawall is more saline (14.8%). Reed height is variable with a few small patches of tall reed (2.3 metres) but generally it is much lower.

There is a balance here between the extent of rush and reed. The boundary of this changed after ditching and rush cutting in the 1990s when the reed bed extended eastwards into the rush. Prior to that in the 1980s the reed area reduced during after sea water regularly overtopped the sea wall. This has now stopped after remedial work to the wall.

5.4 Photographic record held on CD ROM

Photo Number	Reedbed	Grid Reference	Direction taken	Notes
599	2			Outlet ditch to lagoon
600	2	02878787	NW320	
601	2		SE120	High proportion of curved reeds
602	2			Ditch to lagoon now growing over
603	2			Edge – opportunities for pools (curved reeds)
604	2			Ditch along northern edge (water source)
605	2			Increased reed curvature along W. edge of 2
607	1			Southern edge – rushes, open pools, coppiced alder
608	1			Eastern edge – opportunities to fell trees and making pools

610	1			Sluice
611	1	02768798	N 320	Along central water control ditch
612	1	02718802		Open water, deer damage (sticklebacks and frogs)
613	1			Reeds
614	1			Reeds showing poor flowering (along road near low hide)
615	1			Coppicing/pollarding, open water north edge
616	1	02688806	E	Open pools and rushes
617	1			Signs of water vole
618	1			Pollards and pools, Northern edge of 1
619	1			Pollards good for inverts and lichens
620	1	02638805	SW220	Central reedbed
621	1	02638805	W320	
622	1			Open water
623	1			Deer tracks as irrigation channels
624	1			Main channel . western end – good for snipe
625	1	02628801		Central ditch
627	1			Hypericum elodes and Potamogeton in central ditch
628	1			Central ditch looking east from boardwalk
629	1			Boardwalk hide
630	1			Water vole feeding site
631	1			Coppiced alder, western edge
632	1	02548803	SE	Southern edge
633	1			Blocks coppiced late 1990s, southern section
634	1			Could create small clearing along edge of alder carr
635	3			View of reedbed 3, looking north from Mac Hide
636	3			Edge limited by salinity (?)
637	3			Partly created by cutting and ditching
638	3		SE	Reeds
639	3			Ditch
640	3		SE	Rush zone
641	3		N	“
642	3		S	Showing edge with lagoon and zones of reed and rush
643	3		SE	Permanent saline pool near sea wall
644	3			Western edge against Hicklers wood (sallow/birch)
Brsea aerial RB1.jpg				
Brsea aerial RB2 .jpg				
Brsea aerial RB3.jpg				

5.6 Other references

DWT Reserve Management Plan
 Preliminary Survey of the Reedbeds around Poole Harbour (Price and Pickess) 1993
 Reedbed Survey 1996
 DWT species list (held at the Villa)

6. Recommendations

General

- Be aware of scrub encroachment if deer population changes
- Continue monitoring of species and reedbed condition
- Particularly monitor water voles
- Continue the current management regime as outlined in the current Plan to 2003 including spot coppicing in alder carr which may encourage some reed upstream

- Do not lose rush areas to any reedbed management schemes as these are important for wintering water voles
- Species list to be entered into DERC

Reedbed 2:

- Produce plans to dig out the western section between the causeway and the ditches, leaving a bank along the lagoon interface. This bank could be the existing lagoon/reedbed interface or could be constructed from material from the bed extending the bed into the lagoon.
- Replace the experimental bunds/sluices with permanent structures
- More invertebrate study needed

Reedbed 3

- Monitor its condition and vary management to suit
- More invertebrate study needed

7. Species lists

7.1 Species seen during survey

Water rail, 5 snipe

7.2 Notable species

Invertebrates:

Species		Status	Last recorded/first recorded
Stonefly	<i>Nemoura dubitans</i>	Unknown but rare	1970s on
Flame wainscot	<i>Senta flammea</i>	R (national RDB)	1996 on
Brown-veined w'scot	<i>Archanara dissoluta</i>	S	1997
Twin-spotted w'scot	<i>A.gemipunctata</i>	S	1997
Silky w'scot	<i>Chilodes maritimus</i>	S	1997
Obscure w'scot	<i>Mythimna obsoleta</i>	S	1997
Lunar Hornet Clearwing	<i>Sesia bembeciformis</i>	S	1986
Long winged conehead	<i>Conocephalus discolor</i>	S	2000
Small red damselfly	<i>Cerigrion tenellum</i>	S	2000
Downy emerald	<i>Cordulia aenea</i>	S	2000
Ruddy Darter	<i>Sympetrum sanguineum</i>	S	2000

Other Odonata: *Sympetrum striolatum*, *Libellula quadrimaculata*, *Sympetrum scoticum* (occasional – breeding not confirmed as site in centre of marsh), *Aeshna mixta*, *Aeshna grandis*, *Aeshna cyanea*, *Aeshna juncea*, *Anax imperator*, *Enallagma cyathigerum*, *Ischnura elegans*, *Coenagrion puella*

Other: Water vole, Otter 1999, Frog

Birds : Reed warbler (15 singing males in 1999), reed bunting, (2 singing males 1999), water rail (est. 6 pairs), bearded tit (R, not breeding – recorded 2000), kingfisher (autumn/winter), marsh harrier (R- autumn/winter – attempted to nest early 1960s), whinchat (D - autumn), stonechat (occasional autumn/winter), snipe (regular winter up to 20 ?)

Also nesting teal, gadwall (1998), mallard

A full species list is available from the DWT

REEDBED ASSESSMENT FORM

Site Brownsea 1	Grid ref. (site/sample) SY028878 (res. Gate)	Owner/contact number Dorset Wildlife Trust
Recorder KC	Date: 19/10/00	

Size	<1ha	1-5ha	5-10ha part of 5.63 ha	>10ha
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Adjacent land use	Arable	Pasture	Woodland *	Heath	Reed *	Saltmarsh	Carr *	Other Marsh *	Other lagoon
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Shape	Linear	Block *	Potential for expansion	No	Amount or % gain
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% area of/ presence of	Poor reed <5	Good reed 75	Rush 15	Saltmarsh	Scrub	Pools/ditches *	Banks *	Other
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Water source	Fresh -- river/stream *	Fresh -- groundwater *	Saline -- tidal	Saline with fresh
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PH (fw)	PH 5	Salinity	Signs of	Deer *	Cattle	Grazing slight
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Ditches	Not relevant	Not present	Not functioning	Functioning well *
Sluices	Not relevant	Not present	Not functioning	Functioning well *

Water flow	Not obvious	Through bed *	Through ditches/stream *	Tidal
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Water level above litter cm.	5-30	No water
Leaf litter cm.	30	No significant litter

Scrub	0	0-10 *	10-50	More	Edge *	Scattered *
Species	Sallow, alder					

REED CONDITION

Height	<1.5	1.5-2.5 1.5-1.8	>2.5
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Density m ²	<100	100-200 *	>200
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Flower spike %	50
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Stem diameter at butt	3-4
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Straightness	All curved	75:25	50:50	25:75	All straight * mainly
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Hardness (squeeze at butt end)	Hard *	Soft
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REEDBED ASSESSMENT FORM

Site Brownsea 2	Grid ref. (site/sample) SY028878 (res. Gate)	Owner/contact number Dorset Wildlife Trust
Recorder KC	Date: 19/10/00	

Size	<1ha	1-5ha	5-10ha part of 5.63 ha	>10ha
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Adjacent land use	Arable	Pasture	Woodland *	Heath	Reed *	Saltmarsh	Carr *	Other Marsh *	Other lagoon
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Shape	Linear	Block *	Potential for expansion	No	Amount or % gain
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% area of presence of	Poor reed 30	Good reed 70	Rush	Saltmarsh	Scrub	Pools/ditches *	Banks *	Other
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Water source	Fresh -- river/stream *	Fresh -- groundwater	Saline -- tidal	Saline with fresh
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PH (fw)	PH 5	Salinity	.1%seawater	Signs of	Deer *	Cattle	Grazing
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Ditches	Not relevant	Not present	Not functioning	Functioning well *	NB.Need some clearance
Sluices	Not relevant	Not present	Not functioning	Functioning well *	Need some work

Water flow	Not obvious	Through bed * not much	Through ditches/stream *	Tidal
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Water level above litter cm.	5-10 (30)	No water
Leaf litter cm.	15 +	No significant litter

Scrub	0	0-10 *	10-50	More	Edge *	Scattered
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Species	Sallow, alder, birch					
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REED CONDITION

Height	<1.5 60%	1.5-2.5 40%	>2.5
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Density m ²	<100	100-200 *	>200
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Flower spike %	20
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Stem diameter at butt	3-4
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Straightness	All curved *	75:25	50:50	25:75	All straight
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Hardness (squeeze at butt end)	Hard *	Soft
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REEDBED ASSESSMENT FORM

Site Brownsea 3	Grid ref. (site/sample) SY028878 (res. Gate)	Owner/contact number Dorset Wildlife Trust
Recorder KC	Date: 19/10/00	

Size	<1ha	1-5ha	5-10ha part of 5.63 ha	>10ha
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Adjacent land use	Arable	Pasture	Woodland *	Heath	Reed *	Saltmarsh *	Carr *	Other Marsh *	Other lagoon
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Shape	Linear	Block *	Potential for expansion	No	Amount or % gain
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% area of/ presence of	Poor reed 20	Good reed 50	Rush 30	Saltmarsh	Scrub	Pools/ditches *	Banks	Other
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Water source	Fresh -- river/stream	Fresh -- groundwater *	Saline -- tidal	Saline with fresh *
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PH (fw)	PH 5	Salinity	.2%seawater	Signs of	Deer *	Cattle	Grazing
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Ditches	Not relevant	Not present	Not functioning	Functioning well *	NB.Need some clearance
Sluices	Not relevant	Not present *	Not functioning	Functioning well *	

Water flow	Not obvious * in bed	Through bed	Through ditches/stream *	Tidal
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Water level above litter cm.		No water *
Leaf litter cm.	20	No significant litter

Scrub	0	0-10 *	10-50	More	Edge *	Scattered
Species	Sallow, alder, birch					

REED CONDITION

Height	<1.5 60%	1.5-2.5 40%	>2.5
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Density m ²	<100 50%	100-200 50%	>200
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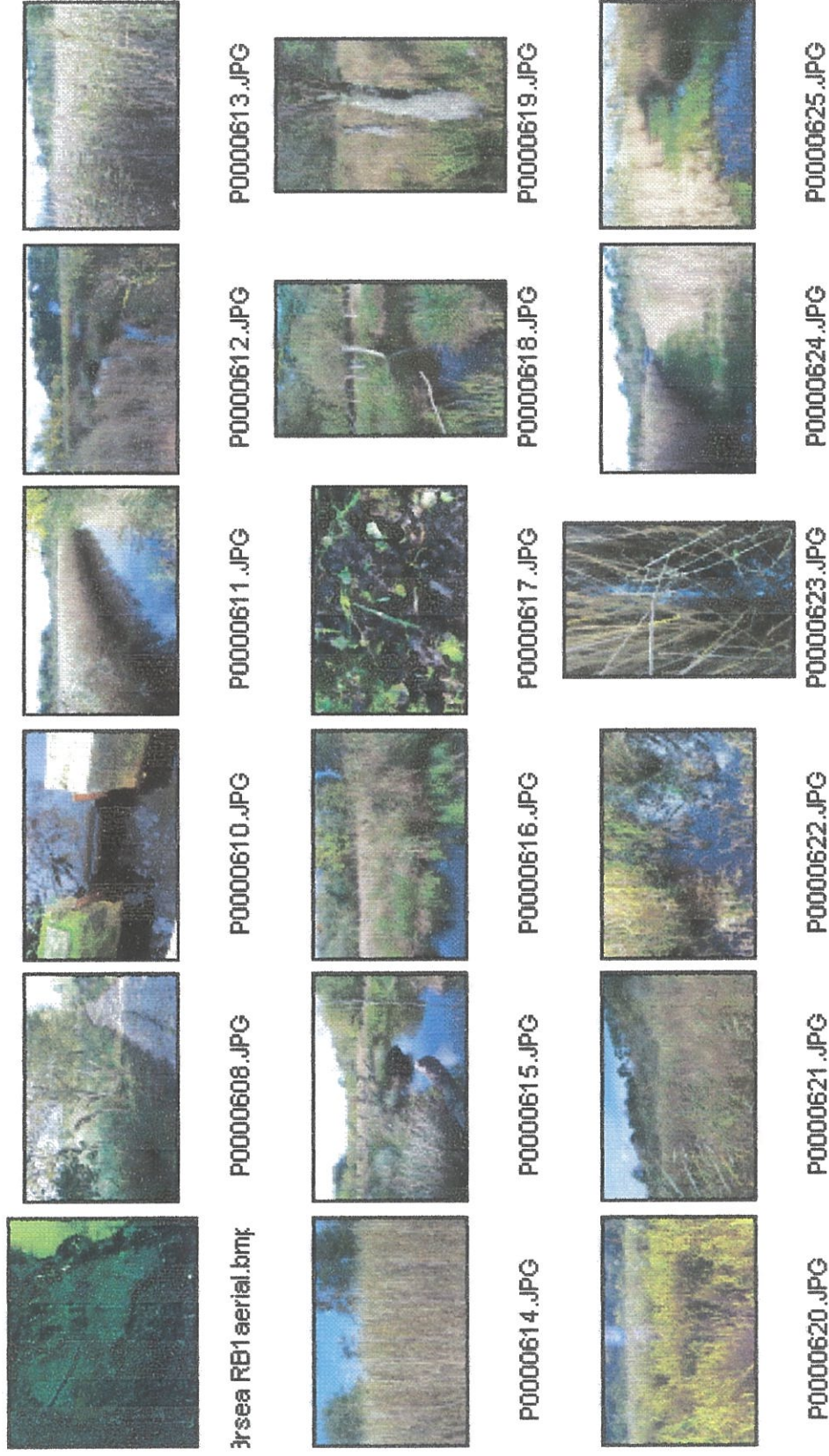
Flower spike %	30-50
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Stem diameter at butt	3-4
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Straightness	All curved	75:25	50:50	25:75 *	All straight
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Hardness (squeeze at butt end)	Hard *	Soft
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Brownsea Reedbed 1 JPGs



[1]

Brownsea Reedbed 1 JPGs



P0000627.JPG



P0000628.JPG



P0000629.JPG



P0000630.JPG



P0000631.JPG



P0000632.JPG

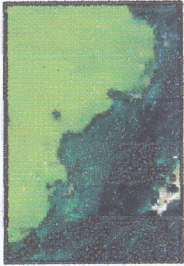


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P0000634.JPG

Brownsea Reedbed 2 JPGs



irsea aerial RB2.bmp



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P0000600.JPG



P0000601.JPG



P0000602.JPG



P0000603.JPG



P0000604.JPG



P0000605.JPG



P0000607.JPG

Brownsea Reedbed 3 JPGs



Irsea aerial RB3.bmp



P0000635.JPG



P0000636.JPG



P0000637.JPG



P0000638.JPG



P0000639.JPG



P0000640.JPG



P0000641.JPG



P0000642.JPG



P0000643.JPG



P0000644.JPG

[1]

Name: Brownsea Reedbed 3 jpgs contact001.bmp
Dimensions: 640 x 480 pixels