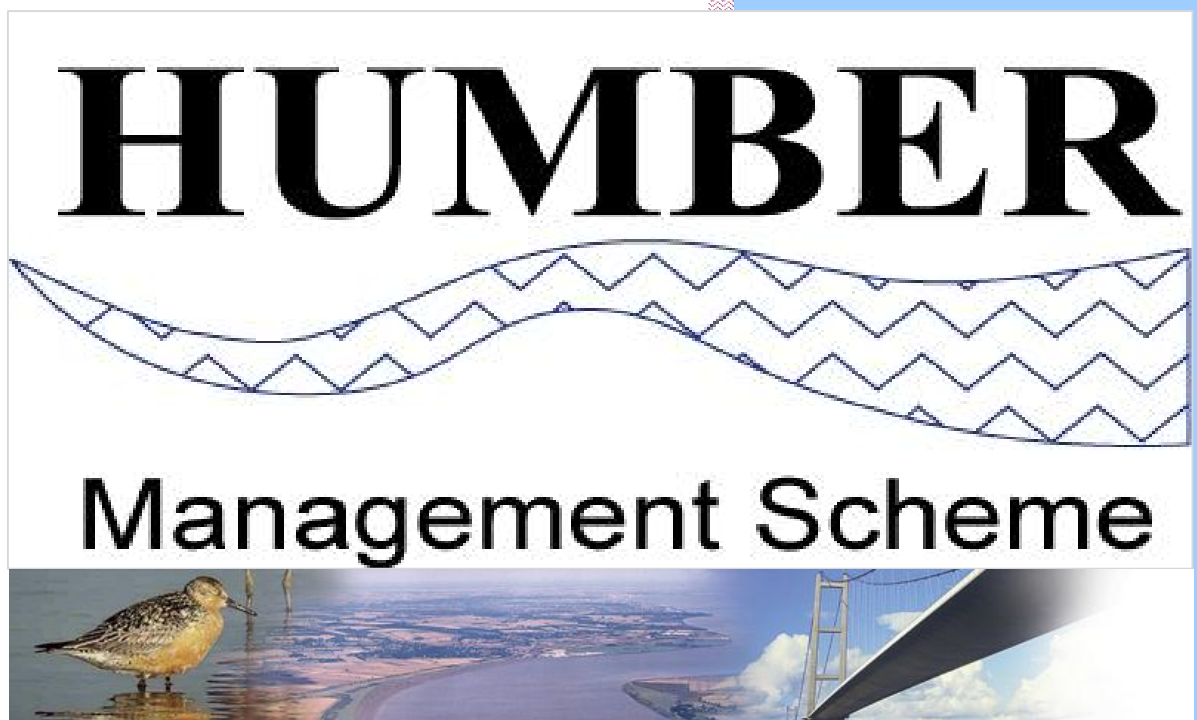


2008 &  
2009

## Combined Annual Reports



### EXECUTIVE SUMMARY

This document is the annual report of the Humber Management Scheme. It provides an account of the Humber Estuary Relevant Authorities contribution to the management of the Humber European Marine Site for 2008 and 2009.

The action plan developed during the scheme's formation was implemented fully, building on the considerable work that had already taken place, to secure a viable future for the Humber Estuary European Marine Site's wildlife, in parallel with its national economic importance.

## CONTENTS

---

1.0 Acknowledgements.....	1
2.0 Management Scheme aims and objectives.....	1
3.0 Progress on 2008-2010 Business Plan.....	1
3.1 Key achievements in 2008 and 2009 .....	1
3.1.1 New codes of conduct.....	1
3.1.2 New Humber Management Scheme website .....	1
3.1.3 The completion of the phase 1 and 2 signage project.....	1
3.2 Communication .....	3
3.3 Student placement .....	3
3.4 Annual Humber Estuary Conference .....	3
4.0 Progress on action plan .....	3
5.0 Condition reporting.....	3
6.0 Legislative changes.....	4
7.0 Membership and Staff.....	4
7.1 The Humber Estuary Relevant Authority Group (HERAG) 2008 and 2009.....	4
7.2 Humber Advisory Group (HAG) 2008 and 2009 .....	5
7.3 Staff .....	5
8.0 Financial Report .....	6
References.....	8
Annex A Fisheries.....	9
Annex B Flood Defence & Land Drainage .....	11
Annex C - Water Resources.....	17
Annex D – Water Quality .....	18
Annex E High Tide Roosts.....	20
Annex F Saltmarsh Management .....	23
Annex G Recreation & Tourism .....	26
Annex H Science & Education .....	31
Annex I Shipping and Navigation.....	34
Annex J Ministry of Defence.....	37

The 2008 Annual Report was drafted and compiled by Project Officer Kat Sanders.

The 2009 section was drafted and compiled by Project Manager Tania Davey.

## 1.0 Acknowledgements

Thanks to all the members of the Humber Estuary Relevant Authorities Group (HERAG) and the Humber Advisory Group (HAG) for their continued support for the scheme and commitment to its ongoing implementation.

## 2.0 Management Scheme aims and objectives

The overall aim of the Humber Management Scheme is:

“Subject to natural change, maintain the favourable conditions of the site through the sustainable management of activities”

This overall aim is broken down into the following:

- To provide a forum for the Humber Relevant Authorities, to share best practice and ensure consistent management of the Humber European Marine Site
- Encourage participation at the widest level, engaging the community and voluntary groups, businesses, local and central government, and public and regulatory bodies, all leading to more informed decision making
- To work in partnership towards the sustainable management of the Humber Estuary European Marine Site
- To allow sustainable development of the area whilst taking measures to maintain the favourable conservation status of the site
- Encourage joint initiatives and educational opportunities
- Link with national and international estuarine groups to promote best practice and integrated action generally
- Provide project costs and funding for research to promote the achievement of the aims and objectives

There were no changes or revisions to the management scheme during 2008 or 2009.

## 3.0 Progress on 2008-2010 Business Plan

### 3.1 Key achievements in 2008 and 2009

Three main projects were completed through 2008 and 2009.

#### 3.1.1 New codes of conduct

Work began on the new codes of conduct at the January 2008 HAG meeting. Work continued throughout the year culminating in a workshop in August 2008 on the new style and content. It was agreed by all HAG members that the new codes should be designed in a more ‘user friendly’ format, to allow them to be more easily used on site. The end result was a pocket sized leaflet with weatherproofing, launched in April 2009.

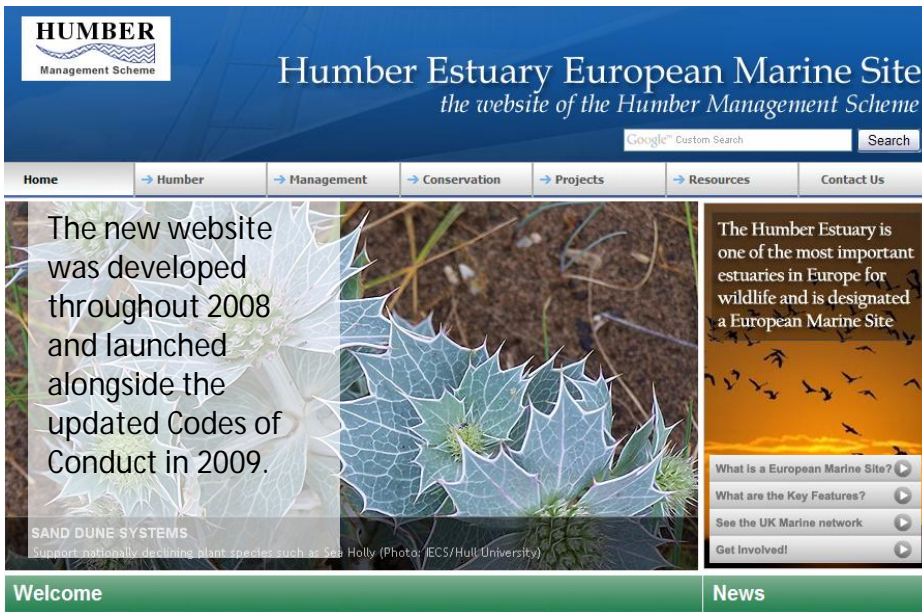
#### 3.1.2 New Humber Management Scheme website

The new website was launched in March 2009 with a completely new style and content. The website provides a range of information on the Humber Estuary itself including the key features and the legislation which protects them, information on the management of the Humber, projects and resources which includes information such as minutes, newsletters and the Business Plan. The website also has an online Recreational Activity Reporting form.

#### 3.1.3 The completion of the phase 1 and 2 signage project.

With funding from the Humber Management Scheme, the Crown Estate Marine Communities Fund and the MoD, 12 signs were installed around the Humber Estuary to engage and educate the public on the European Marine Site.

Key achievements 2008 & 2009



Phase 1 and 2 of the signage project were completed during 2008, with the installation of 12 signs in total.

HAG worked to update the Codes of Conduct during 2008. The codes were produced in 2009

# Humber Estuary European Marine Site Codes of Conduct

Voluntary Codes for all Estuary Users



### 3.2 Communication



No 8 Spring 2008

Ebb & Flow continues to be a positive contribution towards sharing information, good practice and partnership working around the Humber. During 2008 and 2009, 6000 copies of Ebb & Flow were produced. Details of the 2008 and 2009 issues of Ebb & Flow can be found at <http://www.humberems.co.uk/resources/newsletters.php>

Other media coverage during include:

- East Riding News – January 2008 (signage project)
- Hull Daily Mail – January 24<sup>th</sup> 2008
- Natural England Press release February 2008
- Yorkshire Post August 2008

Talks given include:

- 6<sup>th</sup> February 2008 - Walkington Primary School. (approx 100 people)
- 15<sup>th</sup> February 2008 - Louth group of Lincolnshire Wildlife Trust. (approx 36 people)
- 10<sup>th</sup> April 2008 – Coastal Partnerships Annual Forum, Bristol (approx 50 people)

The estimated attendance at talks during 2008 was 190 people.

### 3.3 Student placement

Sarah Garlick, a student from the University from Hull, undertook a 12 week placement beginning in January 2009. Sarah produced a report entitled 'A proposal for a long term study into recreational disturbance to the Humber Estuary Special Protection Area (SPA)'. The report highlighted current information on recreational disturbance and made recommendations on a recreational disturbance study on the Humber Estuary SPA.

### 3.4 Annual Humber Estuary Conference

The Humber Conference has been an annual event held most years since 1992. The Humber Conference continues to be a wide reaching event which provides an excellent opportunity for a range of interests from around the Humber to come together. The 2009 conference was sponsored by the Humber Management Scheme, Humber INCA and Humber Chemical Focus. The Humber Conference is included in the HMS business plan and funds are allocated within the budget for co- sponsoring the event in future years.

### 4.0 Progress on action plan

The Action Plans are reviewed alongside the Management Scheme. Reporting on the management actions for 2008 and 2009 can be seen in Annexes A-J.

### 5.0 Condition reporting

For the purpose of condition monitoring, the Humber Estuary SSSI has a total area of 37,000.59 hectares. For condition assessment purposes it is divided into 185 units. Units vary between 0.13 and 2787.35 hectares in size and they are assessed on an individual basis on a rolling basis every 6 years.

Condition status	2008	2009
	%	%
Area meeting PSA <sup>1</sup> target	99.03	99.45
Area in favourable Condition	94.08	93.94
Area in unfavourable recovering condition	4.95	5.52
Area unfavourable no change	0.18	0.18
Area unfavourable declining	0.78	0.36
Area destroyed/part destroyed	0.00	0.00

Table 1: Humber Estuary condition reporting

The primary reason for unfavourable condition is coastal squeeze with some areas also subject to inappropriate grazing. Other reasons are highlighted in table 2.

Unit	Reason for Unfavourable Condition
9	Inappropriate weed control, Overgrazing
10	Inappropriate weed control
36	Overgrazing
42	Development, overgrazing, hay cutting
68	Cliffing of mudflat
76	Undergrazing
81	Undergrazing
82	Undergrazing
83	Undergrazing
120	Reedbed drying out – invasive willowherb
124	Public access/disturbance
133	Unconsented construction of fishing pegs, phragmites removal
134	Fish stocking. Public access/disturbance
136	Unconsented fishing activity and poor vegetation management
150	Undergrazing
151	Game management - other, Inappropriate scrub control
152	Illicit vehicle use
153	Illicit vehicle use
158	Overgrazing

Table 2: Humber Estuary – unfavourable units

## 6.0 Legislative changes

The European Commission approved the list of candidate Special Areas of Conservation (cSAC) submitted by the UK and on the 10<sup>th</sup> December 2009 and UK Government Ministers designated the list of additional sites as Special Areas of Conservation (SAC). Accordingly the Humber Estuary became an SAC.

## 7.0 Membership and Staff

### 7.1 The Humber Estuary Relevant Authority Group (HERAG) 2008 and 2009

HERAG and HERAG working group continued to hold at least 2 meetings per year in 2008 and 2009. HERAG membership can be seen in table 3.

Chair and Vice-Chair during 2008 and 2009:

Chair	Phil Cowing (ABP) until March 2008 David Patrick (JBA for Shire's Group IDBs) from March 2008 – October 2009
Vice-chair	Philip Winn (Environment Agency) 2008 & 2009

<sup>12</sup> The Public Service Agreements target is for 95% of SSSI to be in favourable or unfavourable recovering condition by 2010.

Membership of the HERAG Working Group:

Phil Cowing	ABP
David Patrick (until October 2009)	JBA for Shire's Group IDBs
Philip Winn	Environment Agency
Emma Hawthorne	Natural England
Jeremy Pickles	East Riding of Yorkshire Council
Adrian Koster	HAG Chair

<p>Internal Drainage Boards</p> <ol style="list-style-type: none"> <li>1. Ancholme</li> <li>2. Dempster</li> <li>3. Goole &amp; Airmyn</li> <li>4. Goolefields</li> <li>5. Isle of Axholme</li> <li>6. Lindsey Marsh</li> <li>7. Lower Ouse</li> <li>8. Market Weighton</li> <li>9. North East Lindsey</li> <li>10. Ottringham</li> <li>11. Preston</li> <li>12. Reedness &amp; Swinefleet</li> <li>13. Scunthorpe</li> <li>14. Skeffling</li> <li>15. Thorgumbald</li> </ol>	<p>Local Authorities</p> <ol style="list-style-type: none"> <li>16. East Lindsey District Council</li> <li>17. East Riding of Yorkshire Council.</li> <li>18. Lincolnshire County Council</li> <li>19. Hull City Council</li> <li>20. North East Lincolnshire Council</li> <li>21. North Lincolnshire Council</li> </ol> <p>Navigation/Harbour Authorities</p> <ol style="list-style-type: none"> <li>22. Associated British Ports</li> <li>23. Associated Petroleum Terminals (Immingham) Ltd</li> <li>24. British Waterways Board</li> <li>25. Humber Sea Terminals Ltd</li> </ol>
<p>Other Authorities</p> <ol style="list-style-type: none"> <li>26. Anglian Water Services</li> <li>27. Eastern Sea Fisheries Joint Committee</li> <li>28. Environment Agency</li> <li>29. Ministry of Defence</li> <li>30. Natural England</li> <li>31. North Eastern Sea Fisheries Committee.</li> <li>32. Yorkshire Water Services Ltd</li> <li>33. Conoco Phillips</li> </ol>	

Table 3: Humber Estuary Relevant Authorities Group

### 7.2 Humber Advisory Group (HAG) 2008 and 2009

HAG held three meetings in 2008 and two meetings in 2009. HAG continued to work as a strong partnership in 2008 and 2009 to update and produce the updated codes of conduct.

Chair HAG	Adrian Koster	2008 & 2009
Vice-chairs	John Rowley	2008
	Daryl Burdon	2009
	Andrew Gibson	2009

### 7.3 Staff

Kat Sanders was in post as a part-time Project Officer until April 2009. In 2009, HERAG made the decision to change the Project Officer part-time role into a Project Manager full-time role commencing in 2010. Tania Davey accepted the role as Project Manager in November 2009.

## 8.0 Financial Report

	For the Y/e 31/12/2008	<u>Statement of Income and Expenditure</u>		For the Y/e 31/12/2009
£	£		£	£
27,256.00		Income		
1,500.00		Contributions	41,402.00	
1,719.11		Other Income	2,200.00	
		Bank Interest	103.89	
	30,475.11			43,705.89
9,560.10		Expenditure		
1,303.02		Salaries & NIC	4,270.14	
535.54		Travel Expenses	452.13	
2,281.73		HERAG & HAG Administration	722.11	
2,343.51		Ebb & Flow and Website	2,428.57	
11,374.00		HINCA Management Fee	2,272.78	
5,080.38		Signage	0.00	
		Other	7,617.94	
	32,478.28			17,763.67
	-2,003.17	Net Income /(Expenditure)		25,942.22
		<u>Balance Sheet</u>		
	46,188.26	Bank Balance b/f		44,079.34
	-2,003.17	Net Income/(Expenditure)		25,942.22
	-105.75	Unpresented Cheque		
		Prepayments		258.00
	44,079.34	Bank Balance c/f		70,279.56

I have checked the Humber Management Scheme accounts for the year ended 31/12/09 and I confirm that they are an accurate record of it's income and expenditure for the year and correctly state the bank balance of the scheme at that date.

Simon Thackray FCCA



Waters' Edge Visitor Centre  
Malkin Road  
Barton upon Humber  
DN18 5JR  
Tel: 01652 631520  
Email: [info@humberems.co.uk](mailto:info@humberems.co.uk)  
Website :[www.humberems.co.uk](http://www.humberems.co.uk)

## References

- English Nature, 2003. Advice given under Regulation 33(2) of the Conservation (Natural Habitats & c.) Regulations 1004. English Nature.
- Statutory Instruments, 1994 No.2716. The Conservation (Natural Habitats, &c.) Regulations 1994. London: HMSO October 1994

Annex A Fisheries

Lead Author: North East Sea Fisheries Committee – David McCandless, Chief Fishery Officer.

Additional Input: Mike Elliot, Chris Firth, Nigel Proctor & Judith Stout, Cliff Garside (Environment Agency)

Activity & Proposed management actions	Progress during 2008	Progress during 2009	Future timetable	Review of Management Action/Timescale etc.
<i>A1/ Angling</i>	Continued monitoring through land-based Officer, inspections and intelligence received	Action continues	Continue to monitor	Continuing input from HAG & review future management actions resulting from proposed Marine Bill 2010.
<i>A2/ Long-lining for skate and cod</i>	Continued monitoring through both land-based and offshore inspections & observations	Action continues	Continue to monitor	
<i>A3/ Cockle gathering</i>	Continued monitoring through land-based Officer inspections and intelligence received. Additional signage detailing fisheries information, including the management of cockle gathering, erected at Marshchapel, Horseshoe Point, on the South bank of the Estuary.	Surveys continue to be undertaken. The fishery remains closed due to depleted stock levels.	Conduct annual stock surveys Spring/early summer 2010	Consider future management options post Marine Bill 2010.
<i>A4/ Netting</i>	New fixed netting Byelaw regulation confirmed November 2008, strengthens existing provisions and prohibits all intertidal netting, within the Estuary, throughout the year. Sole netting limited to licensed registered vessels and restricted to a minimum depth of 5 metres within	Byelaw implemented. Compliance is high. Monitoring continues.	Continue to monitor through land-based and offshore inspections	Consider future management options post Marine Bill 2010

	the Estuary, outside the designated conservation area.			
<i>A5/ Potting for crab</i>	New shellfish Byelaw now fully implemented, pot tagging scheme established for the use of hobby/unlicensed pots Potting included within a Pilot fisheries Strategic Environmental Assessment (SEA) during 2008, recommendations from Environmental Report under consideration.	The committee is in the process of developing consultation method to inform its strategic shellfish management plan.	Continue to monitor through land-based and offshore inspections. Develop the actions as outlined in the shellfish management strategy as outlined in its timetable.	Consider future management recommendations detailed within the Environmental Report, resulting from the SEA process.
<i>A6/ Trawling (shrimp)</i>	Shrimp trawling included within the pilot fisheries SEA process during 2008, recommendations from the Environmental Report under consideration.	There are currently no actions pending with regard to the direct management of this fishery. The fishery is transient and at the moment almost non existent.	Consider options resulting from the SEA process in the future. Priorities may change slightly; due to increased urgency should problems arise.	Consider future management recommendations detailed within the Environmental Report, resulting from the SEA process 2009/2010
<i>A7/ Trawling (sole)</i>	Continued monitoring through offshore inspections	No change	Continue to monitor activity	
<i>A8/ Bait Digging</i>	Periodic monitoring of activities through land-based Officer inspections	Awaiting marine bill.	Continue to monitor activity	Consider future management options post Marine Bill 2010
<i>A9/ Salmon &amp; sea trout angling</i>			Continue to monitor	
<i>A10/ Eel trapping</i>			Continue to monitor	
<i>A11/ Fish impingement</i>	Fish return system implemented at Stallingborough (South Humber Bank Power Station) Power station during 2008, following review of consents		Continue to monitor	
<i>A12/ Barriers to fish movement</i>	Steve Chambers or other (EA)			



<p><i>B2/ Barriers to fish passage</i></p>			<p>All Ancholme, Scunthorpe, Reedness &amp; Swinefleet and Goolefields IDBs –          These Boards will undertake a study to identify barriers to eel passage in districts, prioritise structures for mitigation and source funding to try and undertake mitigation works on high priority structures (as part of their IDB Biodiversity Action Plans).</p> <p>Scunthorpe and Ancholme IDBs - Both these Boards will deliver a yellow eel monitoring programme as part of their IDB Biodiversity Action Plans.</p> <p>North East Lindsey Drainage Board – 2010 will undertake study to identify barriers to eel passage</p> <p>LMDB recording eels in catchments during operational works and forwarded to LERC. Environment Agency investigation into eel passage at tidal outfalls and pumps taking place.</p>	
<p><i>B3/ Discharge of surface water from: Pumping stations, Clough doors and flap valves</i></p>	<p>Ancholme, Scunthorpe, Reedness &amp; Swinefleet and Goolefields IDBs – Continued operation of all pumping stations,</p>	<p>Ancholme, Scunthorpe, Reedness &amp; Swinefleet and Goolefields IDBs</p>	<p>All IDBs are undertaking this.</p>	

Market Weighton IDB	clough doors and flap valves that discharge into the Humber	– Continued operation of all pumping stations, clough doors and flap valves that discharge into the Humber		
Environment Agency	Routine maintenance	North East Lindsey Drainage Board – Combined operation of pumping stations, clough doors and flap valves that discharge into the Humber.  Routine maintenance	Routine maintenance	
<i>B4/ Maintenance Desilting of outfalls</i>				
Isle of Axholme IDB:	Desilted Adlingfleet Drain Outfall (SE 858 218) using a long reach excavator, with Natural England's consent. Work was delayed as Marsh Harriers were breeding adjacent to the work area.			
Burstwick New Clough	Desilting during 2007-08		Proposed desilting during summer 2010	
Stone Creek	Desilting during 2001-		Proposed desilting during	

Easington 2 New Clough	08		summer 2010 Replacement of flap doors and improvement works Summer 2010	
<i>B5/ Maintenance Grass cutting and vegetation management</i>		Ancholme, Scunthorpe, Reedness & Swinefleet and Goolefields IDBs – Continued annual maintenance regime of drains within and adjacent to Humber designation, in accordance with Natural England approved operations and maintenance plans.  North East Lindsey Marsh Drainage Board – one bank regime on watercourses in district Routine Maintenance	All IDBs are undertaking this.	Ongoing, with operations and maintenance plans reviewed as required.
Environment Agency	Routine Maintenance	Routine Maintenance	Routine Maintenance	
<i>B6/ Maintenance Stoning Sunk Island</i>			Proposed stoning improvement works during 2010	
<i>B7/ Maintenance Repairs to banks and other structures</i>				

Environment Agency	As and when required	As and when required	As and when required	
<i>B8/ Maintenance Removal of rubbish and obstructions</i>				
Environment Agency	As and when required	As and when required	As and when required	
<i>B9/ Maintenance Vermin control</i>			Marsh Water Vole Project, a partnership if EA/LWT/LMDB & NE undertaking mink trapping in coastal grazing marsh area.	
Environment Agency	As and when required	As and when required	As and when required	
<i>B10/ Monitoring and surveying</i>	(Annex H)  LMDB - Extensive surveys undertaken on the proposed realignment site at Donna Nook - surveys undertaken by EA's consultants.	Ancholme IDB – surveying prior to commencement of construction of Fulseas Pumping Station. Including Water Vole survey and an archaeological investigation.  North East Lindsey Drainage Board – Carrying out environmental assessment – water vole survey and archaeological assessment.	Ancholme IDB – Post-works surveys of Fulseas Pumping Station site to be undertaken.	

Asset Inspections	As and when dictated by NFCDD	As and when dictated by NFCDD	As and when dictated by NFCDD	
<i>B11/ Operation of River Hull Tidal Surge Barrier and flood gates</i>	Operated as and when required	Operated as and when required	It is currently out of commission and due to be back on line July 2010. Undergoing works to improve reliability.	

Annex C - Water Resources

Lead Author: Environment Agency – Sue Manson

Activity & Proposed management actions	Progress during 2008	Progress during 2009	Future timetable	Review of Management Action/Timescale etc
C1/ Abstraction of Water (Annex A11)  Existing abstractions	Review as new legislation is implemented	Review as new legislation is implemented	Review as new legislation is implemented	
C2/ Monitoring of Abstractions (Annex H)  Illegal abstractions (including breaches of licence conditions)	Monitor: to ensure water not being extracted illegally As occur (routine monitoring)  Enforcement: in line with legislation  Ongoing	Monitor: to ensure water not being extracted illegally As occur (routine monitoring)  Enforcement: in line with legislation  Ongoing	To continue as outlined	

Annex D – Water Quality

Lead Author: Environment Agency – Andrew Barron

Activity & Proposed management actions	Progress during 2008	Progress during 2009	Future timetable	Review of Management Action/Timescale etc
D1/ Effluent Discharges & Atmospheric Emissions from prescribed Processes	Monitoring Continued	Monitoring Continued	Monitoring Continued	
D2/ Outfall maintenance	N/A	N/A	N/A	
D3/ Agricultural runoff from rivers	Monitoring Continued	Monitoring Continued	Monitoring Continued	
D4/ Leaching from Contaminated Land	Monitoring Continued	Monitoring Continued	Monitoring Continued	
D5/ Clean up of contaminated land				
D6/ Mobilisation of contaminated sediments	Monitoring Continued	Monitoring Continued	Monitoring Continued	
D7/ Dredging	See Annex I10/15			
D8/ Waste management licensed operations	Monitoring Continued	Monitoring Continued	Monitoring Continued	
D9/ Waste management illegal disposal	Widespread trying to improve enforcement	Widespread trying to improve enforcement	Improvements to enforcement	
D10/ Leaching of antifouling paint	Change to legislation with no TBT to be found on hulls by	Enforcement		

	2008			
D11/ Oil and chemical spillages from vessels and harbour installations	See Annex I1			
D12/ Spillages/leakages/deliberate pollution (other than from ships)	When and where occurs- deal with the situation	When and where occurs- deal with the situation	When and where occurs- deal with the situation	
D13/ Monitoring and surveys	Throughout the system and ongoing	Throughout the system and ongoing	Throughout the system and ongoing	

## Annex E High Tide Roosts

Lead Author: Natural England - Emma Hawthorne

Additional Input: Ian Higginson & Harriet Dennison, RSPB

Activity & Proposed management actions	Progress during 2008	Progress during 2009	Future timetable	Review of Management Action/Timescale etc.
E1/ Changes in land use and/or vegetation type				
Monitor and review high tide roosts around the Humber Estuary.	No new work this year	No new work this year	Ongoing	
Promote the development of further high tide roosts on the estuary by liaising with colleagues to inform and target new HLS applications.	Continue to work with advisors in Natural England's land management team to ensure that applications are received from sites adjacent to the estuary with opportunities to focus on the maintenance or enhancement of high tide roosting and foraging sites. Several HLS's have been completed this year including Alkborough managed realignment site.	Continue to work with advisors in Natural England's land management team to ensure that applications are received from sites adjacent to the estuary with opportunities to focus on the maintenance or enhancement of high tide roosting and foraging sites. Several HLS's have been completed this year including managing grassland for wigeon at Faxfleet.	Ongoing	
Monitor bird numbers landward of the sea wall via revised WeBS counts to provide separate data for the	Continue to promote the need to separate out data for high tide roosts from main	Continue to promote the need to separate out data for high tide roosts from main WeBS data with	Ongoing	

estuary and the terrestrial habitat.	WeBS data with local bird recorders	local bird recorders		
Review the need for a buffer zone between the estuary and industrial development where appropriate.	This action has been superseded – see South Humber Bank work below	This action has been superseded – see South Humber Bank work below	N/A	
Advise competent authorities on Habitats Regulations	Continue to advise competent authorities on their responsibilities under the Habitats Regulations when consulted on developments and Local Development Frameworks	Continue to advise competent authorities on their responsibilities under the Habitats Regulations when consulted on developments and Local Development Frameworks	Ongoing	
Develop and implement Biodiversity Action Plan targets for creating coastal grazing marsh and other relevant habitats.	Natural England has contracted Dr Nev Jones to undertake a review of the subtidal BAP features of the Humber Estuary. Once the review is complete, it is envisaged that targets will be developed with the Humber Advisory Group. Managed realignment sites around the estuary are contributing to the national BAP target 'intertidal habitat creation'	Engage with and influence the EA's Regional Habitat Creation Programme. Managed realignment sites around the estuary will contribute to the national BAP target 'intertidal habitat creation'	Ongoing	
Develop solutions for the sustainable development of the South Humber Gateway	Continue to liaise with North and North East Lincolnshire Councils regarding the development zone along the South Humber Bank. Natural England and the RSPB have attended a	Continue to liaise with and influence North and North East Lincolnshire Councils regarding the South Humber Gateway development zone. Natural England and the RSPB have attended a	Ongoing	

	<p>number of meetings and conferences to give presentations and provide advice to stakeholders regarding the merits of taking a strategic approach to development and mitigation.</p> <p>Natural England are leading on the development of a carrying capacity study which will aim to identify the size, location and requirements of a mitigation area for SPA birds utilising the South Humber Bank.</p> <p>Natural England has also contracted David Tyldesley and Associates to produce a paper entitled "A Development Plan for Ecology and Industrial Development. The South Bank of the Humber Estuary". This provides a proposed way forward which the stakeholders of the South Humber Bank are now working towards.</p>	<p>number of meetings and conferences to give presentations and provide advice to stakeholders regarding the merits of taking a strategic approach to development and mitigation. A carrying capacity study has been completed which identifies key fields for SPA birds within the SHG. This, and the RSPBs principles paper, will inform requirements for mitigation areas.</p>		
--	--	---	--	--

Annex F Saltmarsh Management  
 Lead Author: Natural England- Emma Hawthorne  
 Additional Input: Ian Higginson, RSPB.

Activity & Proposed management actions	Progress during 2008	Progress during 2009	Future timetable	Review of Management Action/Timescale etc.
<p><i>F1/ Stock grazing</i>            Surveillance and promotion of ELS and HLS to support low intensity grazing.</p>	<p>Liaison with land management colleagues to target ELS / HLS applications adjacent to the estuary, or those with saltmarsh which was historically grazed, where applicable. A number of these applications are being progressed. A Natural England HLS targeting group has been established for the Humber Estuary.</p>	<p>Liaison with land management colleagues to target ELS / HLS applications adjacent to the estuary, or those with saltmarsh which was historically grazed, where applicable. A number of these applications are being progressed. A Natural England HLS targeting group has been established for the Humber Estuary.</p>	<p>Ongoing</p>	
<p><i>F2/ Plant gathering</i>            (Annex G13)            Erection of signs explaining the nature conservation importance of the site and information on third party damage</p>	<p>Interpretation signs have now been produced and erected in 14 locations around the estuary. Natural England provided advice for several of the sign locations to ensure that they were placed in the locations where third party damage is known to be a problem. No further reports of large scale samphire</p>	<p>Interpretation signs have now been produced and erected in 14 locations around the estuary. Natural England provided advice for several of the sign locations to ensure that they were placed in the locations where third party damage is known to be a problem. No further reports of large scale samphire</p>	<p>Ongoing</p>	

	collection have been received this year.	collection have been received this year.		
<i>F3/ Reed cutting</i>	There has been no progress from Natural England on the proposed estuary-wide project, however we continue to advise individual owner/ occupiers on reedbed management. Areas of reedbed have also been entered into HLS with appropriate management prescriptions. The RSPB and LWT continue with reedbed management on their sites.	Natural England continue to advise individual owner/ occupiers on reedbed management. Areas of reedbed have also been entered into HLS with appropriate management prescriptions. The RSPB and LWT continue with annual reedbed management on their sites.	Ongoing	
<i>F4/ Sea defences</i>	(Annex B)			
<i>F5/ Access through Saltmarsh Surveillance of areas where this is known to be a problem. Monitoring to inform management options</i>	Monitoring is continuing through liaison with owners and occupiers. Proposed signs will assist where access is causing damage and/ or disturbance	Monitoring is continuing through liaison with owners and occupiers. Proposed signs will assist where access is causing damage and/ or disturbance	Ongoing	
Additional activities				
Investigation of the impact of habitat change on bird populations in the upper estuary	A Natural England member of staff has completed a project on the historical	A contract has been let to the Institute of Estuarine and Coastal Studies to assess the	Ongoing	

	<p>management of saltmarshes on the Humber Estuary “Can the past inform the present? Saltmarsh grazing on the Humber Estuary”.</p> <p>It is hoped that this project will allow us to target HLS agreements and feed into the conservation objectives for the site.</p>	<p>impacts of habitat change in the upper estuary. A previous analysis undertaken by the BTO showed that many bird species had declined in this part of the estuary. Local stakeholders believe this is due to changes in habitat and habitat management practices.</p>		
--	--	---	--	--

Annex G Recreation & Tourism				
Lead Author: Local Authorities East Lindsey District Council – Roy Ormsby, East Riding of Yorkshire Council – Jeremy Pickles, Hull City Council – Alex Codd, Lincolnshire County Council – Jon Watson, North East Lincolnshire Council – Chris Holliday, North Lincolnshire Council (NLC) – Andrew Taylor.				
Additional Input: Humber Advisory Group				
Activity & Proposed management actions	Progress during 2008	Progress during 2009	Future timetable	Review of Management Action/Timescale etc.
<i>G1/Angling</i>	No Information from NLC	NE Lincolnshire, East Riding: Nothing to report  Natural England: South Humber Bank - lots of angling	NE Lincolnshire: Management plan for sand dunes in Cleethorpes due early 2011	2010 review of Humber Management Scheme. Annex will be reviewed and new actions created.  Desk based study on recreational disturbance on Humber Estuary SPA birds due September 2010.
<i>G2/ Airborne recreation*</i>	No aircraft incidents reported at Alkborough in 2008 For 2009, Noise monitoring and bird disturbance studies carried out at Killingholme Haven Pits revealed no bird response to light aircraft at normal flying height.	NE Lincolnshire: Nothing to report – low flying sometimes  North Lincolnshire: Helicopters  East Riding: Nothing to report		
<i>G3/ Bait digging</i>	No Information from NLC	NE Lincolnshire: Ongoing management – best practice and bylaws – to get permission, need to be a resident of NE Lincolnshire, restricted to certain area. Using beach safety team to police.		

<i>G4/ Beach recreation</i>	No Information from NLC	NE Lincolnshire: No change  Natural England: NE Lincolnshire 4x4s beach at Cleethorpes.  East Riding: High pressure Hessle foreshore but potentially no issue		
<i>G5/ Birdwatching</i>	Walkers and bird watchers using the floodbank between Goxhill Haven and East Halton Skitter stimulate a flight response from waders of several species (pers. obs.). The frequency of response and magnitude of any impact are not known. This also occurs south of Killingholme Haven.	NE Lincolnshire, North Lincolnshire: No change  East Riding: Issues at Paull Holme Strays, likely similar issues at other locations. Recreation disturbance study will help		
<i>G6/ Cycling</i>	No information from NLC. Cycling is not permitted on the floodbank, which is generally footpath, not bridleway. However, it does occur.	NE Lincolnshire, North Lincolnshire, East Riding: No change		

<i>G7/ Dog walking</i>	Walkers and bird watchers using the floodbank between Goxhill Haven and East Halton Skitter stimulate a flight response from waders of several species (pers. obs.). The frequency of response and magnitude of any impact are not known. This also occurs south of Killingholme Haven.	NE Lincolnshire: No change  North Lincolnshire: Dogs observed around Waters' Edge  East Riding: Issues at Paull Holme Strays, likely similar issues at other locations. Recreation disturbance study will help	North Lincolnshire: 2010 Winteringham – dog fowling	
<i>G8/ Horse riding</i>	No information from NLC. Horse riding is not permitted on the floodbank, which is generally footpath, not bridleway. However, it does occur.	NE Lincolnshire, North Lincolnshire, East Riding: No change		
<i>G9/ Motor cruising</i>	No Information from NLC	North Lincolnshire, East Riding: No change		
<i>G10/ Motorised access to foreshores.</i>	No recent reports	NE Lincolnshire: Controlled slipways controlled beach safety. Some issues but being resolved – ne dealing with. North Lincolnshire, East Riding: No change		
<i>G11/ Motorised recreation on the foreshores.</i>	No recent reports	NE & North Lincolnshire, East Riding: No change		
<i>G12/ Personal Water Craft</i>	No Information from NLC	NE Lincolnshire: Monitored beach safety,		

		slip ways locked. North Lincolnshire, East Riding: No change		
<i>G13/ Samphire collection</i>	No Information from NLC	North Lincolnshire, East Riding: No change		
<i>G14/ Seal watching</i>	No Information from NLC	LWT: Surfaced access path to allow easier wheelchair access to viewing area. Concern regarding disturbance to the pups on the outer beach caused largely by photographers at the weekend. Think the effect on the seals on the outer beach is significant, the effect of visitors on the population as a whole is still acceptable – as shown by overall increase and low mortality. 2009 figures: 1371 pups born, pup mortality estimated at 7.6%. c60,500 visitors during November & December seal season. Donna Nook remains the largest grey seal colony in England. For full seal report contact <a href="mailto:info@humberems.co.uk">info@humberems.co.uk</a>  NE Lincolnshire: Odd seal on beach	Review current management and create actions.	

<i>G15/ Walking</i>	Walkers and bird watchers using the floodbank between Goxhill Haven and East Halton Skitter stimulate a flight response from waders of several species (pers. obs.). The frequency of response and magnitude of any impact are not known. This also occurs south of Killingholme Haven.	NE Lincolnshire: No issues  North Lincolnshire: No change – SHB reports indicate disturbance.  East Riding: Issues at Paull Holme Strays, likely similar issues at other locations. Recreation disturbance study will help		
<i>G16/ Wildfowling</i>	No Information from NLC	Through out estuary – inspected regularly NE.  Upper regulated wildfowling committee & Wooton Wildfowlers looking into poaching, in conjunction with NE and police.		
<i>G17/ Yachting and sailing</i>	No Information from NLC	NE Lincolnshire: No issues, goes through yacht club  North Lincolnshire: No change		

Annex H Science & Education

Lead Author: Natural England - Emma Hawthorne, Humber Project Officer Kat Sanders.

Additional Input: Hellen Hornby – HAG.

Activity & Proposed management actions	Progress during 2008	Progress during 2009	Future timetable	Review of Management Action/Timescale etc
H1/ Aerial Surveys			LWT: Ariel photographs commissioned by SHWAP project	HMS review 2010
H2/ Archaeological surveys			LWT: Feb 2010 – Survey at Poor Feb 2010 – Survey at Poor Farm, Barton by North Lincs Museum Spring 2010 – Survey of the Adamant Cement Works at Far Ings as part of SHWAP.	
H3/ Bird and mammal surveys	Humber INCA: Wintering & Migratory Bird Survey South Humber Banks  WeBS Counts	Humber INCA: Wintering & Migratory Bird Survey South Humber  WeBS Counts  Bittern, bearded tit and marsh harrier surveyed through breeding season at Far Ings. General bird breeding surveys fortnightly at Far Ings. Mammals surveyed as part of the “Bringing Reedbeds back to Life “ project (NE/RSPB/LWT)  ICES: Volunteers assisted RSPB with their mammal surveys Saltend bird monitoring (ongoing every two weeks) Paull Holme Strays & Welwick bird	NE/RSPB/LWT “Bringing Reedbeds back to Life “ continuing	

		<p>monitoring (ongoing monthly)</p> <p>Bird disturbance monitoring at Halton (periodic high intensity as required)</p> <p>Bird disturbance monitoring at Swinefleet (periodic high intensity as required)</p>		
H4/ Fish/shellfish surveys		<p>ICES: Fyke netting at Alkborough</p> <p>Fyke netting at Welwick, Stone Creek, Paull Holme Strays, Skeffling, Chowderness, Cleethorpes (ongoing seasonal)</p> <p>Seine netting at <i>Lincshore</i></p>	LWT: Planned adult training course that may produce some data.	
H5/ Monitoring fish activities		ICES: See H4		
H6/ Geological surveys				
H7/ Geomorphologic surveys				
H8/ Habitat condition assessment	Undertaken by Natural England	<p>Natural England has undertaken condition assessment using Common Standards Monitoring for 14 saltmarsh and sand dune units.</p> <p>ICES: Monitoring of habitat development at Alkborough – mapping saltmarsh boundaries etc</p> <p>Monitoring of habitat development at Paull Holme Strays managed realignment site</p>	To be undertaken by Natural England	
H9/ Hydrographic surveys		ICES: Topography surveys at Alkborough		
H10/ Sampling of intertidal and subtidal sediments by grab, coring, trawling etc		<p>ICES: Sampling of benthos and sediment at <i>Lincshore</i></p> <p>Sampling of benthos and sediment at Paull Holme Strays</p>		

		Sampling of benthos and fish (fyke netting) at Alkborough Core sampling at Cleethorpes (ongoing once per year)		
H11/ Invertebrate studies/surveys		ICES: Sampling of benthos at <i>Lincshore</i> Sampling of benthos at Paull Holme Strays Sampling of benthos at Alkborough		
H12/ Monitoring pollutant concentrations		ICES: Targeted sampling within the estuary		
H13/ Seismic surveys				
H14/ Vegetation surveys		ICES: Generic habitat mapping and NVC Community analysis at Alkborough Saltmarsh vegetation mapping at Cleethorpes (ongoing once per year)		
H15/ Water sampling		ICES: Water quality monitoring at Alkborough managed realignment site  All pits salinity tested 3 times per year by LWT staff	All pits salinity tested 3 times per year by LWT staff	
H16/ Field trips universities/schools	LWT: 2703 children on educational visits 676 on informal events	LWT: 3046 children on educational visits and 470 on informal events  ICES: MSc Student fieldtrips to the North Bank (Spurn, Saltend, Paull Holme etc) and the South Bank (Donna Nook etc.) Various BSc and MSc student projects in and around the Humber Estuary	LWT: Detailed data collected by SHWAP staff as a monitoring tool. Will be available at the beginning of 2011	LWT: SHWAP finished Dec 2010. No funding in place as yet to continue education remit.

Annex I Shipping and Navigation

Lead Author: Associated British Ports - Capt. Phil Cowing				
Additional Input: Alison Chitoriski - British Waterways				
<p>Building of Hull riverside Container terminal has been delayed.</p> <p>A prototype, one fifth scale, tidal power generator has been established behind the No. 10 Upper Burcom Buoy. The system uses high-performance hydrofoils to take energy from tidal stream currents. The device will remain in situ for 12 – 15 months.</p> <p>A further tidal power project is proposed off Albert Dock in Hull.</p> <p>Plans for a Hull Riverside Bulk Terminal, upstream of Salt End Jetties are in the public domain, as are plans for a Ro-Ro river terminal at Grimsby and a deepening project for Sunk Dredged Channel.</p>				
Activity & Proposed management actions	Progress during 2008	Progress during 2009	Future timetable	Review of Management Action/Timescale etc.
<i>11/ Spillages from vessels and harbour installations</i>	10 reports received during the year, including possible sightings of oil in the water, all spills were of a minor nature.	9 reports received during the year, including a release of Titanium Tetrachloride (UN1838) gas cloud from Chrystal Global at Stallingborough. Also possible sightings of oil in the water, all spills were of a minor nature.	Humber Clean is in the process of being reviewed and is valid until 2011.	Annually
<i>12/ Spillage clear up operations</i>	None in 2008.	None in 2009.		
<i>13/ Maintenance of structures</i>	Cappers Jetty at Melton, demolished July 2008.	None in 2009.		
<i>14/ Movement of Floating Marks</i>	Stallingborough Flat – Establishment of a Power Generating Device.  Middle Humber – 1 move plus one buoy was established in the Skitter Channel.	Humber Approaches – 2 moves, Relocation of Humber Lt Flt and South Sand Buoy following the TSS and Deep Water Anchorage extension  Middle Humber – 2 moves		

	Upper Humber – 27 moves including one major change involving 6 buoy moves.	Upper Humber – 39 moves.		
<i>15/ Discharge of effluents at sea (ships)</i>	None in 2008.	None in 2009.		
<i>16/ Discharge of ballast water</i>	Clean ballast water is permitted to be discharged in the Harbour area. No instances of dirty ballast being discharged in 2008.	Clean ballast water is permitted to be discharged in the Harbour area. No instances of dirty ballast being discharged in 2009.		
<i>17/ Dock, port and marina development</i>	Plans & projects are assessed under relevant legislation.	Plans & projects are assessed under relevant legislation.		
<i>18/ Harrowing/ Ploughing/ Bed Levelling of river beds</i>	<p>Surveillance and survey Plough dredging undertaken at the following locations:</p> <ul style="list-style-type: none"> <li>• New Holland Dock entrance.</li> <li>• Dock entrances at Hull, Goole, Grisby and Immingham.</li> <li>• Victoria Dock basin</li> <li>• Humber Sea terminal</li> <li>• River Terminal 1</li> <li>•</li> </ul>	<p>Surveillance and survey Plough dredging undertaken at the following locations:</p> <ul style="list-style-type: none"> <li>• New Holland Dock entrance.</li> <li>• Dock entrances at Hull, Goole, Grimsby and Immingham.</li> <li>• Victoria Dock basin</li> <li>• Humber Sea Terminal</li> <li>• River Terminal 1</li> </ul>		
<i>19/ Hydrographic Surveying</i>	135 annual surveys and 603 other surveys were carried out in 2008. (15% increase on 2007)	146 annual surveys and 747 other surveys were carried out in 2009. (21% increase on 2008)		
<i>110/ Sunk dredged channel 111/ Goole dock and dock entrance 112/ Dock Entrances</i>			No dredging req'd in 2009 Regular maintenance dredging undertaken at these locations	Maintenance Dredging Protocol signed off during 2009.

<i>I13/ River Humber</i> <i>I14/ Berths at North Killingholme (HST)</i>			throughout 2009	
<i>E10 – E14 above</i>				
<i>I15/ Hull Marina</i>	No dredging carried out in 2008.	Short campaign of dredging in the Summer of 2009.		
<i>I16/ Vessels transits</i>	Continuous monitoring by Vessel Traffic Services Humber.	Continuous monitoring by Vessel Traffic Services Humber.		
<i>I17/ Navigation lighting</i>	Continuous monitoring by Vessel Traffic Services Humber.	Continuous monitoring by Vessel Traffic Services Humber.	Damaged or unreliable navigation marks are listed in the annual Harbour Master's Report, available from April 2010. The Trinity House Lighthouse Service conducts an annual tour by launch and motor vehicle of all navigation marks on the Humber, Ouse and Trent. Defects are reported to the Harbour Master who arranges for the defects to be rectified by ABP or third party owners.	
<i>I18/ Smoke-stack emissions/engine operations</i>	Regulated under MARPOL 1973/78	Regulated under MARPOL 1973/78		
<i>I19/ Tank Washings</i>	Monitoring by Vessel Traffic Services Humber. – not allowed by statute.	Monitoring by Vessel Traffic Services Humber. – not allowed by statute.		
<i>I20/ Discharge of liquid effluents</i>	Monitoring by Vessel Traffic Services	Monitoring by Vessel Traffic Services		

Annex J Ministry of Defence

Activity & Proposed Management Actions	Progress During 2008	Progress During 2009	Future Timetable	Review Management Action/Timescales etc.
<p>J1/ Low Flying Fixed Wing Aircraft                      J2/ Military Helicopters                      J3/ Bombing and Gunnery                      J4/ Weapons Clearance                      J5/ Military Target Repair</p>				
<p>J1-J5 Above</p> <p>Review Military activities include military aircraft usage, bombing, gunnery, trials/flare drops, noise weapons clearance and targetry.</p> <p>Develop a Conservation Management Plan Action – MoD (Defence Estates) in consultation with NE and LWT.</p> <p>Surveillance to assess impact of military helicopters on bird activities within the range.</p>	<p>Military activity is recorded in detail, i.e. including military aircraft usage, bombing and gunnery, flares dropped, noise weapons clearance and targetry.</p> <p>The Conservation Management Plan is awaiting the development of the Defence Training Estate Environment Management System. Defence Training Estates have commissioning a study to assess the impact of helicopter activity on birds within the ranges.</p>	<p>Military activity is recorded in detail, i.e. including military aircraft usage, bombing and gunnery, flares dropped, noise weapons clearance and targetry.</p> <p>The Conservation Management Plan and the Defence Training Estate Environment Management System are both complete.</p> <p>Defence Training Estates have commissioning a study to assess the impact of helicopter activity on birds within the ranges. Scoping study is complete. Awaiting project plan for final study.</p>	<p>Ongoing</p> <p>Complete awaiting approval.</p> <p>Initial report commissioned February 2009</p>	<p>Comprehensive Data collected from 2000 to 2008</p>

J6/ Maintain/Replace: Warning Flage/Notices/Beacons	No warning flags or beacons replaced during 2008. Flags are raised daily, however, new route on farmers track avoids saltmarsh.	No warning flags or beacons replaced during 2009. Flags are raised daily, however, new route on farmers track avoids salt marsh. Lead-in markers repainted during 2009 salt marsh avoided where possible.		
J7/ Visiting Rapier Units	No Visiting Rapier Units	No Visiting Rapier Units	None Planned	
J8/ Non-Military Flying – Light Aircraft	Letter of Agreement in place between RAF Donna Nook and North Coates.	Letter of Agreement in place between RAF Donna Nook and North Coates.		