

# HAYLE ESTUARY MANAGEMENT PLAN (HEMP) 2008-2013



*Management Plan Area – (Outlined in Green)*

Revision 0 – First Issue

11<sup>th</sup> March 2008



**HEMP Vision:**  
“Working together to accommodate all users of the Hayle estuary while protecting the natural and historic environment”



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## SECTION A: INTRODUCTION TO THE MANAGEMENT PLAN

### 1. INTRODUCTION

The Hayle Estuary is an area which has a rich and diverse wildlife, landscape and historic heritage and is not only cherished by the local community but recognized both nationally and internationally.

Estuaries in general, and Hayle is no exception, provide recreational opportunities and employment for local people. The challenge set by the Hayle Estuary Management Plan (HEMP) is to conserve the natural and historic heritage of the estuary, which is unique, but at the same time encourage appropriate opportunities and give full recognition to the important needs of commerce, tourism and leisure interests.

The HEMP seeks to identify and bring together these key interests and incorporate them in a single document, making reference only to existing reports, legislation and other issues impacting on the estuary.

### 2. IMPLEMENTATION

There are two groups with a role to play in the support of the HEMP. These are the “**Responsible Organisations**” (RO’s) who are the landowners, decision makers, statutory authorities or others responsible for the making of by-laws and the “**Interested Parties**” (IP’s) who are the resident associations and user groups who enjoy the use of the estuary.

**The HEMP is a collaborative agreement between the RO’s and, as such, seeks to recognise roles and responsibilities for the objectives identified. It cannot, however, limit or enhance the existing statutory duties of the RO’s who must retain their independence in discharging their responsibilities. They cannot delegate those duties and where responsibilities and roles are assigned in this management plan, those statutory roles and responsibilities will take precedence.**

For the purpose of the HEMP, the “Responsible Organisations” are considered to be:

- Hayle Harbour Management Limited
- ING RED UK (Hayle Harbour) Ltd
- Environment Agency
- English Heritage
- Cornwall County Council
- Penwith District Council
- RSPB
- Natural England

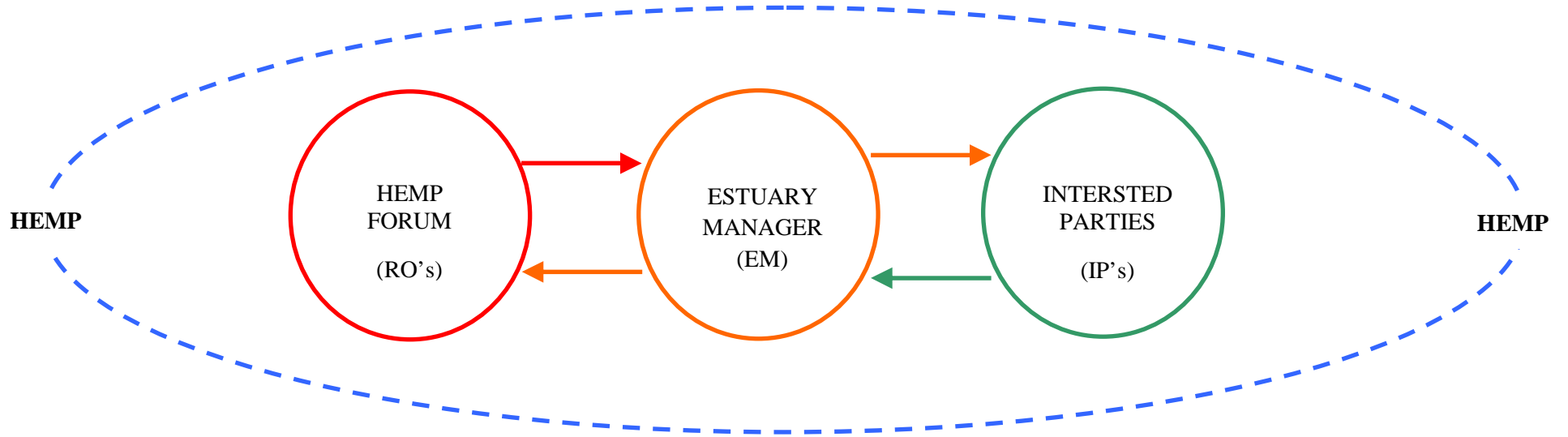
The “Responsible Organisations” (ROs) will work together as a forum to implement the management of the HEMP and for simplicity will be called the **HEMP Forum**. It is anticipated that the **HEMP Forum** would meet on a half-yearly basis to set objectives, agree funding, discuss priorities and monitor actions.

The employment of an Estuary Manager (EM) for the HEMP will ensure that the decisions of the forum can be discussed with the “Interested Parties”. The EM will need to seek, or be asked to consider, the advice of the “Interested Parties” when decisions are being made by the forum.

The “Interested Parties” are considered to be as indicated below although it is recognised that this list may not cover all the users that currently enjoy the use of the estuary.

- Maritime Coastguard Agency
- RNLI
- Hayle Town Council
- HHAC
- Hayle Fishermen Association
- Hayle Commercial Boat Users
- Hayle Harbour Users Association
- South West Regional Sports Council
- Cornwall Wildlife Trust
- South West Water
- Ramblers Association
- Cornwall Sea Fisheries Committee
- Hayle Chamber of Commerce

The relationship between the RO's, IP's and EM are indicated in the diagram below.



### 3. THE NEED FOR AN ESTUARY MANAGEMENT PLAN FOR HAYLE

The purpose of the HEMP is to:

1. To provide a dynamic and evolving voluntary code of practice for the management of Hayle Estuary
2. Place the efforts already undertaken by many ROs into one place.
3. Identify all ROs and their interests in the estuary and its management.
4. Identify all users of the estuary and their concerns for its ongoing suitability for their use of it.
5. Identify and draw together the key issues currently affecting the estuary and its management.
6. Foster an understanding of the key issues by all ROs.
7. Clarify ROs visions and objectives for the long term future of the estuary.
8. Provide a focus for and identify the actions needed to achieve the long-term sustainable management of the estuary.
9. Strengthen the partnership approach to the management of the estuary.
10. Provide evidence of implementation of the objectives set.
11. Put Hayle Estuary at the forefront of the integrated management process to meet the anticipated requirements of the Marine Bill.

The area covered by this management plan is the tidal limits of the estuary, land and harbour waters under the jurisdiction of Hayle Harbour Management Ltd. (HHML) and most of Hayle Estuary and Carrack Gladden SSSI.

#### **4. PLAN LINKS TO SUSTAINABLE COMMUNITIES AND REGULATORY CONTROLS**

The HEMP draws together existing plans and helps clarify the roles, responsibilities and requirements of the statutory bodies, owners, occupiers and managers of the estuary. It aims to promote joint working to deliver more effective outcomes through a co-ordinated and shared approach to management of the estuary.

The plan does not attempt to override existing powers or responsibilities, or prescribe the outcomes of issues. Rather it is a non-statutory document, providing guidance and support for the integrated management of the Hayle Estuary as a healthy, natural environment for residents and visitors alike.

#### **5. RESOURCING**

This plan provides a strategic overview of the management needs of the estuary. In order to be sustainable, it will be necessary to secure funding from a number of sources to cover the costs of managing the Hayle Estuary as a healthy natural environment. During implementation of this plan, it will be necessary to cost proposed actions and to identify potential sources of funding. Not all management actions and solutions to some of the issues identified here involve direct costs and could be dealt with on a case-by-case basis by the appropriate RO's. This however is not the purpose of the HEMP as a co-ordinated action to an issue will often be of more value and deliver an improved solution.

#### **6. MONITORING AND REVIEW**

Updates on actions will be made at the Hayle Forum meetings and it is anticipated this management plan should be reviewed every five years.

## 7. FORMAT

The issues identified below have been grouped into sections to minimise titles but to maximise available discussion time on each section. Each section identifies GUIDING PRINCIPLES which sets out and provides the context for the STRATEGIC OBJECTIVE(S). The latter addresses how to resolve the issue.

The plan indicates practical measures under the heading SUGGESTED IMPLEMENTATION under which VERIFICATION is also included to specify what steps will be taken to evaluate the success of the Suggested Implementation. In this DRAFT the verification method has not been detailed.

The ACTION WITH section provides a guide as to the lead agency (this may vary over time) and who the primary supporting agencies are. It is up to the lead agency to enlist the assistance of others in the resolution of an issue.

The final element is PRIORITY & BUDGET that identifies, where possible, whether the Objective is a priority (High, Medium, Low) and how much it may cost in order to be able to reasonably appraise which issues should be dealt with in a more timely manner. In this DRAFT the budget level has not been completed.

## SECTION B: ESTUARY MANAGEMENT CONSIDERATIONS

### SUMMARY OF PRIORITIES BY LEAD ORGANISATION

The following table is provided to assist in identifying which organisations have the tasks of highest priority and for ensuring a reasonable distribution of actions between the ROs. Further details are provided with the subsequent sections of this document and priorities may change as actions are undertaken.

Section	Title	Priority of Actions Required by (Red – high, Orange – medium, Green – low)					
		EM	HHML	PDC	EA	CCC	RSPB / NE
A.	GENERAL MANAGEMENT	Red					
B.	NAVIGATION AND MOORINGS	Green	Red		Green		
C.	MARINE BUSINESSES	Green	Green	Orange	Red		
D.	ESTUARY USER SAFETY	Orange	Orange				
E.	TOURISM AND RECREATION	Green	Green	Orange			
F.	ESTUARY DEVELOPMENT						Green
G.	ESTUARY CLEANLINESS				Red		Red
H.	LAW ENFORCEMENT						
I.	CONTINGENCY PLANNING	Green			Red		
J.	COASTAL PROTECTION	Green	Red	Red		Red	
K.	NATURE CONSERVATION	Green			Red		Red
L.	THE HISTORIC ENVIRONMENT	Green		Red			
M.	INTERPRETATION AND EDUCATION (NEW)			Orange		Red	Red

## A. GENERAL MANAGEMENT

### Guiding Principles

- ⇒ Work towards establishing Hayle Estuary as a model for others to follow as an example for management of a small estuary.
- ⇒ Ensure that those using the estuary for commercial, recreational or social reasons are involved appropriately in the process of its management.
- ⇒ Ensure that all aspects of estuary management are undertaken in an environmentally sustainable manner.
- ⇒ Provide the information to the public for continued involvement, consultation and education.

Ref. No.	Strategic Objective	Method of Implementation and Verification	Action With	Priority (and Budget £k)
A1	<i>Ensure an appropriate flow of relevant and timely information between users, owners and statutory bodies.</i>	<i>All RO's and IP's have named points of contact. Named contacts to provide and exchange appropriate and timely information to assist management decisions affecting Hayle Estuary. Establish a Hayle Estuary website including the management plan, relevant reports and minutes</i>	<b>EM</b>	<b>HIGH</b>
A2	<i>Ensure that changes to management structures are communicated effectively.</i>	<i>Changes to named contacts and organization structures are communicated directly to relevant parties.</i>	<b>EM</b>	<b>HIGH</b>
A3	<i>Identify funding, grants and other revenue streams to allow the HEMP to develop</i>	<i>Monitor available grants. Identify funding opportunities within own organizations. Ensure HEMP funding is separated from other activities</i>	<b>EM</b>	<b>HIGH</b>
A4	<i>Ensure the guiding principles are adhered to and that overlap is recognised.</i>	<i>Yearly review of the guiding principles to be provided. Regular review of the strategic objectives to ensure they are achievable</i>	<b>EM</b>	<b>HIGH</b>
A4	<i>Ensure the management plan is implemented and updated appropriately.</i>	<i>Annual updates on actions Undertake five-yearly plan reviews Disseminate information on the estuary via newsletters, web pages and circulars.</i>	<b>EM</b>	<b>HIGH</b>

## B. NAVIGATION AND MOORINGS

### Guiding Principles

- ⇒ Provide for the continued safe use of the estuary by watercraft and other users.
- ⇒ Allow natural processes to prevail where possible, whilst consideration will be given to maintaining a safe and navigable channel.
- ⇒ Adopt best practice in the management of coastal processes to minimise impacts on the natural environment and minimise contaminant remobilisation
- ⇒ Ensure that, as far as possible, there are sufficient moorings and appropriate shore-side infrastructure.
- ⇒ Provide moorings without unacceptable detriment to other water users and in accordance with conservation objectives of the estuary.

Ref. No.	Strategic Objective	Method of Implementation and Verification	Action With	Priority (and Budget £k)
B1	<i>Ensure the adequate maintenance of the navigation to meet Statutory requirements</i>	<i>Review accident reports and comments on safety issues at every meeting Table any correspondence received from Trinity House or others for proactive discussion</i>	<i>HHML</i>	<i>HIGH</i>
B2	<i>Ensure maintenance dredging is undertaken without unduly damaging the natural environment, coastal processes or disturbing contaminants</i>	<i>Assist, monitor and enforce the requirements of the dredging licence issued by PDC. Where possible restore historic sluicing arrangements to assist in the clearance of the navigation channels so far as is compatible with the other objectives for the estuary as a whole</i>	<i>HHML EA / HHML</i>	<i>HIGH LOW</i>
B3	<i>Develop a Maintenance Dredging Protocol to inform the future maintenance dredging process and licence procedures</i>	<i>By way of adopting best practice a dredging protocol is to be developed which will provide historic and current dredging records and information.</i>	<i>HHML</i>	<i>MEDIUM</i>
B4	<i>Ensure that mooring management takes fully into account water users and appropriate shore-side infrastructure.</i>	<i>Continue to monitor existing Local Authority policies towards moorings. Promote the Green Blue initiative (RYA) and identify studies for grant funding from this initiative.</i>	<i>EM EM</i>	<i>LOW MEDIUM</i>
B5	<i>Ensure that mooring management takes fully into account the estuary conservation designations.</i>	<i>Ensure appropriate consideration is given to sensitive environment habitats and species, landscape and historic features during the laying of new moorings or structures. Keep accurate logs of the location and condition of moorings and associated infrastructure.</i>	<i>HHML</i>	<i>LOW</i>
<b>REFER ALSO TO RELEVANT ITEMS J2</b>				

## C. MARINE BUSINESSES

### Guiding Principles

- ⇒ Integrate the economic activities of the estuary and encourage its development as a whole, whilst recognising the aims of the conservation objectives for the Estuary.
- ⇒ Assist in supporting and encouraging measures to stimulate economic benefits and maximising employment associated with marine related industry.
- ⇒ Work towards ensuring the fishing industry at Hayle is secure and is actively supported.
- ⇒ Ensure that the exploitation and development of the fisheries resources in the estuary is carried out at a sustainable level.

Ref. No.	Strategic Objective	Method of Implementation and Verification	Action With	Priority (and Budget £k)
C1	<i>Encourage and further a diverse and prosperous marine related industry base.</i>	<i>Identify and support measures for consideration in economic rejuvenation strategies and other initiatives</i>	<i>PDC</i>	<i>MEDIUM</i>
C2	<i>Ensure that existing waterfront sites are available for marine related businesses.</i>	<i>Confirm and where appropriate improve monitoring of existing or amended planning policies and local/regional strategies.</i>	<i>PDC</i>	<i>MEDIUM</i>
C3	<i>Continue to monitor, maintain, improve and develop fisheries.</i>	<i>Assisting the policing of the illegal taking of fish and the sale and export of wild salmon and trout. Control the movement and introduction of fish or spawn into any waters other than fish farms without links to catchment watercourses. Raise income through duties on fishing licences and generate local income through support of an active rod fishery. Ensure adequate levels of water and ensure suitable water quality through EC Freshwater Fish Directive (78/659/EEC) and Water Quality Objectives to support fisheries.</i>	<i>EA</i>	<i>HIGH</i>
C4	<i>Continue to monitor, protect and regulate the marine harvesting in the estuary.</i>	<i>Carry out research to establish baselines Assist the Environment Agency during monitoring of shellfish beds in the area so that if stocks are unacceptably low the removal of shellfish may be prohibited. Periodically review byelaws to ensure compliance with Habitat Regulations.</i>	<i>EA</i>	<i>HIGH</i>
C5	<i>Ensure the public is aware that bait digging is prohibited within SSSI under Hayle Harbour Byelaw 56e.</i>	<i>Publicise relevant Hayle harbour byelaws. Take appropriate enforcement action in cases of persistent offences.</i>	<i>HHML</i>	<i>LOW</i>
<b>REFER ALSO TO RELEVANT ITEMS F2</b>				

## D. ESTUARY USER SAFETY

### Guiding Principles

- ⇒ Encourage and promote the safe and responsible use of estuarine areas.
- ⇒ Identify opportunities to enhance public accessibility where appropriate and without damaging the natural environment.
- ⇒ Ensure public access is controlled to minimise the impact on the heritage and ecology of the estuary.
- ⇒ Identify, protect and actively conserve sensitive areas in which protection is of primary importance.

Ref. No.	Strategic Objective	Method of Implementation and Verification	Action With	Priority (and Budget £k)
D1	<i>Promote and encourage the safe and responsible use of waters and tidal areas for all public events.</i>	<i>Ensure all event organisers consult the 'Recreational Code of Conduct' before any public event is launched or advertised Update and periodically review the 'Recreational Code of Conduct' to ensure compatibility and current legislation is covered and make appropriate literature available to event organisers</i>	<i>EM</i>	<i>MEDIUM</i>
D2	<i>Monitor the safe and responsible use of waters and tidal areas for all public events.</i>	<i>Ensure the recommendations covered by the 'Recreational Code of Conduct' are adhered to and that issues concerning public safety, litter, access, timing and placement of events are identified Ensure all recreational events are conducted safely and responsibly with organisers identifying all hazards through the appropriate risk assessment process for the Health &amp; Safety of both participants and onlookers</i>	<i>HHML</i>	<i>MEDIUM</i>
D3	<i>Promote, encourage and monitor the safe and responsible use of waters and tidal areas for all club and private use.</i>	<i>Encourage and promote membership of local clubs such as Penwith Water Ski Club and Hayle Canoe Club as non-members and 'lone-users' are prohibited from many areas. For example, at Carnsew Pool, only the Hayle Canoe Club are permitted to use the "white water" at the weir for their sport, the rest of the pool being zoned for birds as a 'Sanctuary Area'.</i>	<i>HHML</i>	<i>LOW</i>
D4	<i>Ensure the public is aware that venturing out across mud/sand-flats and bait digging is prohibited because of bird disturbance, damage to the estuarine substrate and disturbance of heavy metals.</i>	<i>Continue to monitor and update the issue. Produce appropriate literature and on-site notice boards indicating potential detrimental impacts, legislation, penalty etc.</i>	<i>HHML</i>	<i>LOW</i>

D5	<i>Ensure that arrangements for the impoundment of water at Copperhouse Pool for recreational events are publicised for the protection of users.</i>	<i>Produce appropriate literature and on-site notice boards following agreement from EA for impoundment dates and times.</i>	<i>HHML</i>	<i>LOW</i>
<b><i>REFER ALSO TO RELEVANT ITEMS E2, E3</i></b>				

## E. TOURISM AND RECREATION

### Guiding Principles

- ⇒ Encourage and promote environmentally sustainable tourism without creating disproportionate adverse impacts on shore-side communities, including wildlife interests and conservation designations.
- ⇒ Support recreational uses by identifying areas appropriate to the use desired which have a minimum impact on the estuary.

Ref. No.	Strategic Objective	Method of Implementation and Verification	Action With	Priority (and Budget £k)
E1	<i>Promote, encourage and monitor the safe and responsible use of waters and tidal areas for all public and private use.</i>	<i>Encourage and promote membership of local clubs such as Penwith Water Ski Club and Hayle Canoe Club as non-members and 'lone-users' are prohibited from many areas. Identify opportunities for seasonal/temporary memberships.</i>	<i>HHML</i>	<i>LOW</i>
E2	<i>Ensure an environmentally friendly balance between local communities, conservation areas and water/tidal land users</i>	<i>Encourage commercial and recreational boat users to undertake Wildlife Safe (WiSe) training and accreditation scheme</i>	<i>NE</i>	<i>LOW</i>
E3	<i>Ensure that arrangements for the impoundment of water at Copperhouse Pool for recreational events are publicised and made available to event organisers.</i>	<i>Continue to monitor, update and manage through the "Three Councils Agreement" and the Environment Agency instigating impoundments via the flood alleviation gate as requested.</i>	<i>PDC</i>	<i>MEDIUM</i>
E4	<i>Maintain and, where appropriate, enhance public access on foot for quiet recreational enjoyment of the estuary and its surroundings.</i>	<i>Ensure existing public rights of way and permissive paths are clearly way marked. Explore opportunities for enhancing the existing network of footpaths, particularly by the creation of new links Explore opportunities for improving links to the South West Coast Path around the estuary.</i>	<i>PDC</i>	<i>MEDIUM</i>
<b>REFER ALSO TO RELEVANT ITEMS D3, D4 &amp; D5</b>				

## F. ESTUARY DEVELOPMENT

### Guiding Principles

- ⇒ Ensure that redevelopment of the Hayle Harbour and surrounding areas occurs in a sustainable manner and respects the natural, historic and archaeological interests of the estuary
- ⇒ To ensure that the protection of the character of Hayle is reflected in local planning policies
- ⇒ To raise public awareness of the heritage of the estuary
- ⇒ Ensure that the development of policies for land use and development, flood risk management and shoreline management are consistent with sustainable development principles and contribute to maintaining a diverse and healthy estuary.

Ref. No.	Strategic Objective	Method of Implementation and Verification	Action With	Priority (and Budget £k)
F1	<i>Ensure that the Sites of Special Scientific Interest and the interests of RSPB and Natural England are respected in the design and implementation of any development</i>	<i>Maintain historic artefacts wherever possible and develop a Conservation Management Plan</i>	<i>NE</i>	<i>LOW</i>
F2	<i>Ensure any development is compatible with the provisions of the Hayle Harbour Act 1989 and the Byelaws.</i>	<i>Ensure liaison with all interested parties in any planning process for the development of the estuary</i>	<i>PDC</i>	<i>HIGH</i>
F3	<i>Take necessary measures to provide for 100year flood levels in development proposals.</i>	<i>Carry out detailed hydraulic modelling. Work closely with the Environment Agency to maximise opportunities for flood control for the town as a whole.</i>	<i>EA / PDC</i>	<i>HIGH</i>
F4	<i>Seek opportunities to adapt to and accommodate the effects of climate change including managed retreat and river corridor management.</i>	<i>Work with EA, Natural England and local authorities to explore opportunities to adapt to the likely effects of climate change and sea level rise, for example through Penwith District Council's Climate Change Strategy.</i>	<i>PDC</i>	<i>HIGH</i>
F5	<i>Ensure key natural features and processes that create the character of the estuary and its setting are protected, managed and enhanced in a sustainable manner.</i>	<i>Ensure that the preparation and implementation of all plans and projects affecting the estuary contribute to the maintenance of the character of the estuary and its setting. In partnership with all RO's identify opportunities for enhancing natural features and the character of the estuary and its setting</i>	<i>EM</i>	<i>HIGH</i>

F6	<i>Ensure that any future developments or likely management requirements resulting from developments, do not negatively affect the coastal processes in the estuary</i>	<p><i>Follow the coastal protection strategy for Hayle Estuary set out in the Shoreline Management Plan and any subsequent guidance documents (i.e. hold the line) whilst taking into account the strategy for the surrounding dunes.</i></p> <p><i>Undertake an integrated coastal processes study covering the whole of the Hayle Estuary to further explore issues and opportunities for the longer term.</i></p>	<i>PDC</i>	<b><i>HIGH</i></b>
F7	<i>Promote understanding of the economic and social benefits provided by the estuary and the Towans.</i>	<p><i>Investigate the feasibility of researching the economic and social benefits provided by the natural environment at Hayle</i></p> <p><i>Investigate the feasibility of returning a proportion of the economic wealth generated by the natural environment to positive management and enhancement of natural features, habitats and species.</i></p>	<i>PDC</i>	<b><i>MEDIUM</i></b>
<b><i>REFER ALSO TO RELEVANT ITEMS L4</i></b>				

## G. ESTUARY CLEANLINESS

### Guiding Principles

- ⇒ Work toward ensuring that the estuary remains, as far as practicable, free of litter from any source.
- ⇒ Encourage education initiatives and support volunteer groups and their activities.
- ⇒ Ensure the estuary is managed in a way that maintains and, where possible, enhances water quality.
- ⇒ Ensure all approved activities and operations in and around the estuary do not result in pollution and, as far as possible, seek to prevent pollution from uncontrolled activities or operations.
- ⇒ Ensure that activities and operations in and around the estuary minimise the risk of uncontrolled disturbance of contaminated sediments.
- ⇒ Ensure that all users and ROs are aware of the potential risks posed to public health through direct contact with the estuary water and contaminated sediments.

Ref. No.	Strategic Objective	Method of Implementation and Verification	Action With	Priority (and Budget £k)
G1	<i>Continue to identify and, where practicable, remove sources of litter.</i>	<p><i>Conduct surveys using new and existing information in order to draw up a programme of measures to identify sources of litter; more adequately monitor and help prevent litter originating in the estuary.</i></p> <p><i>Investigate the usefulness of producing supplementary planning guidance and/or design briefs in order to maximise litter prevention measure in waterfront areas.</i></p> <p><i>Examine the facilities for litter disposal/collection and develop project specifications for grant applications for reception facilities such as rubbish recycling/dog waste bins and skips.</i></p> <p><i>Support local initiatives to reduce litter entering the sea. For example, 'Plastic Bag Free' town campaigns</i></p>	<i>PDC</i>	<i>HIGH</i>
G2	<i>Work towards ensuring a co-ordinated and effective clean up regime for litter.</i>	<p><i>Establish and seek continued funding for an improved and appropriately co-ordinated clean-up campaign whilst ensuring that potential wildlife impacts are fully considered such as the RSPB monthly work parties.</i></p> <p><i>Contribute towards regional and national abatement efforts, for example 'Fishing for Litter'.</i></p> <p><i>Contribute towards, promote and seek further support for local volunteer collecting such as the MCS initiative 'Adopt a Beach'.</i></p> <p><i>Support 'environmentally friendly' beach cleaning regimes which do not impact on the strandline and embryonic dune communities.</i></p>	<i>EM</i>	<i>MEDIUM</i>

G3	<i>Maintain and, where possible, improve water quality within the estuary.</i>	<p><i>Ensure that any future developments in the Hayle harbour land incorporate measures to minimise urban runoff and intercept pollutants.</i></p> <p><i>Ensure that permissions for activities and operations in and around the estuary do not result in pollution.</i></p> <p><i>Seek to minimise the risk of pollution from uncontrolled activities and operations in and around the estuary through appropriate publicity, raising awareness and, where appropriate, enforcement.</i></p> <p><i>Ensure agreed impoundments of water in Copperhouse Pool do not adversely affect water quality.</i></p>	EA	<b>HIGH</b>
G4	<i>Promote understanding of the impact and legacy of mining and related industries on Hayle estuary.</i>	<p><i>Ensure organisers of public events consider the implications of the presence of contaminated sediments when carrying out risk assessments.</i></p> <p><i>In permitting events, ensure that these will not result in disturbance of contaminated sediments.</i></p>	NE	<b>HIGH</b>
<b>REFER ALSO TO RELEVANT ITEMS M5</b>				

## H. LAW ENFORCEMENT

### Guiding Principle

- ⇒ To make the estuary a safe area for all users and their property
- ⇒ Ensure that the estuary is policed effectively so that all users can undertake the legitimate business or activities safely and securely.
- ⇒ To educate the public in reporting all aspects of estuary-related crime

Ref. No.	Strategic Objective	Method of Implementation and Verification	Action With	Priority (and Budget £k)
H1	<i>Ensure that publicity of existing non-fisheries byelaws and byelaw making powers for the estuary are widely distributed.</i>	<i>Ensure that all users are aware of the existence of the Hayle Harbour Byelaws 1990 and that copies of the byelaws are made available to all users through signage, newsletters, websites and flyers.</i>	<i>EM</i>	<i>HIGH</i>
		<i>Periodically review existing byelaws to ensure that they remain appropriate and effective. The legal process needed to update byelaws is to be considered in any review.</i>	<i>HHML</i>	<i>LOW</i>
H2	<i>Ensure that all codes of conduct, protocols and other voluntary agreements covering activities on the estuary are widely understood and available.</i>	<i>Ensure that all users are aware of relevant codes of conduct, protocols and other voluntary agreements controlling activities on the estuary and that these are publicised and made widely available.</i>	<i>EM</i>	<i>HIGH</i>
		<i>Periodically review all codes of conduct, protocols and other voluntary agreements controlling activities on the estuary to ensure they remain appropriate and effective.</i>	<i>EM</i>	<i>MEDIUM</i>
H3	<i>Secure the support of all users for crime prevention initiatives.</i>	<i>Responsible organisations to agree ways to make information about legal and voluntary controls available to users and ROs. Review existing crime prevention measures in consultation with the police. Develop a programme to implement crime prevention measures in partnership with all users. Publicise existing and new crime prevention initiatives.</i>	<i>EM</i>	<i>MEDIUM</i>
H4	<i>Ensure that RO's with an enforcement role are aware of each other's responsibilities and that, where appropriate, they work together in a co-ordinated way in undertaking enforcement action.</i>	<i>Ensure all organisations with an enforcement role have agreed lines of communication and points of contact. Periodically review enforcement protocols to ensure they remain appropriate and effective. (for example, Hayle Estuary Enforcement Protocol agreed between HHML, RSPB, PDC, Devon and Cornwall Constabulary and English Nature)</i>	<i>EM</i>	<i>HIGH</i>
<b>REFER ALSO TO RELEVANT ITEMS B1 &amp; C5</b>				

## I. CONTINGENCY PLANNING

### Guiding Principles

- ⇒ Ensure proper contingency arrangements for oil/chemical spillage are maintained and developed further.
- ⇒ Minimise exposure of the estuary to accidental spillages by discouraging oil/chemical use or deliveries taking place near the waters edge
- ⇒ Identify key drainage routes into the estuary and the possible contingency plans or works that can be undertaken to protect the estuary.
- ⇒ Review opportunities to reduce flood risk and have contingencies in place to protect vulnerable areas, where possible.

Ref. No.	Strategic Objective	Method of Implementation and Verification	Action With	Priority (and Budget £k)
I1	<i>Ongoing development of Oil/Chemical Spill Counter-measures Plan.</i>	<i>Sustain discussions with relevant partners to ensure that appropriate plans and response structures are reviewed, updated and appropriately tested. Assist with the development of a programme of ongoing training and response structures that are regularly tested.</i>	<i>HHML</i>	<i>HIGH</i>
I2	<i>Develop flood contingency plans.</i>	<i>Work closely with the Environment Agency to maximise opportunities for flood protection of the town as a whole.</i>	<i>PDC/EA</i>	<i>HIGH</i>
I3	<i>Where appropriate, assist the Environment Agency and others in minimising or preventing the risks from flooding and climate change.</i>	<i>Contribute to the preparation and reviews of the West Cornwall Catchment Flood Management Plan and the Shoreline Management Plan. Encourage close working between the local planning authority and EA to achieve development around the estuary that does not increase the risk of flooding.</i>	<i>PDC</i>	<i>HIGH</i>
<b>REFER ALSO TO RELEVANT ITEMS F3, F4</b>				

## J. COASTAL PROTECTION

### Guiding Principles

- ⇒ Ensure that the coastal processes in the estuary are managed in such a way that they do not negatively affect the important habitats and natural coastal processes.
- ⇒ Monitor and report on the ongoing changes to the estuary due to the coastal processes.
- ⇒ Undertake dredging activities in line with guidance provided by all consultees and within any licence provisions.

Ref. No.	Strategic Objective	Method of Implementation and Verification	Action With	Priority (and Budget £k)
J1	<i>Ensure that the understanding of the dynamic coastal processes of the Hayle Estuary are recorded and monitored, within the context of the St Ives Bay sediment cell.</i>	<i>Monitor the fluctuations and sediment dynamics within the estuary through aerial and Fixed Point Photography (or LIDAR data) at low tides and by periodically measuring beach profiles and bathymetry of the channels and sand banks. Monitor the amount of bare sand and status and extent of the sand dune habitats at the mouth of estuary. Take measures to restore dune habitats where appropriate to maintain natural coastal protection. Explore opportunities for managed retreat and coastal habitat recreation or enhancement to allow for future losses due to predicted sea level rise.</i>	CCC	<b>HIGH</b>
J2	<i>Allow natural processes to prevail where possible, whilst maintaining a safe and navigable channel for estuary users.</i>	<i>Keep an accurate annual record of action taken to manage the channel and adjacent sediments (if any). Use the coastal processes monitoring data to inform the management of the harbour channels and surrounding mobile habitats. Consult with experts, organisations and local users in order to inform management decisions in relation to dredging, sluicing or other measures which might alter the channels, sand banks, beaches, mud flats or sand dunes</i>	HHML HHML PDC	<b>MEDIUM</b> <b>MEDIUM</b> <b>HIGH</b>
J3	<i>Undertake dredging of the harbour in accordance with any licence conditions.</i>	<i>Monitor dredging performance within the licence conditions provided Provide a dredging protocol to inform future licencing conditions Work with other agencies to identify the most beneficial re-use of dredged materials in terms of both economics and the integrity of the estuary as a whole</i>	HHML	<b>HIGH</b>
<b>REFER ALSO TO RELEVANT ITEMS B2, B3 &amp; F6</b>				

## K. NATURE CONSERVATION

### Guiding Principles

- ⇒ Ensure the protection and enhancement of the natural features, habitats and species occurring at Hayle Estuary, including and in addition to the habitats and species afforded national protection by designation as a SSSI.
- ⇒ Ensure the environmental value of the estuary is widely communicated in order to minimise ecological damage and disturbance
- ⇒ To promote public understanding and appreciation of the area's natural wealth.

Ref. No.	Strategic Objective	Method of Implementation and Verification	Action With	Priority (and Budget £k)
K1	<i>Ensure an appropriate flow of relevant and timely information between users, owners and statutory bodies.</i>	<i>Secure the positive management of areas not covered by a management plan through a partnership approach with all relevant organisations, landowners and managers. In partnership with all relevant organisations, landowners and managers identify opportunities for enhancing natural features, habitats and species Implement existing management plans (for example, the RSPB management plan for Hayle Estuary Nature Reserve).</i>	<i>RSPB</i>	<i>HIGH</i>
K2	<i>Ensure management for key features, habitats and species is effective</i>	<i>In partnership with all relevant organisations, monitor and review management undertaken and agree revision of management actions as necessary.</i>	<i>RSPB</i>	<i>MEDIUM</i>
K3	<i>Research and review effects of public access, recreational activities and disturbance on key natural features, habitats and species.</i>	<i>Investigate establishing a programme of monitoring disturbance on migrating and over-wintering birds and other wildlife. Periodically review existing literature on the effects of public access, recreational activities and disturbance on nature conservation interests.</i>	<i>RSPB</i>	<i>MEDIUM</i>
K4	<i>Raise the profile and improve understanding of the natural features and wildlife of the estuary and adjoining Towans and their designations</i>	<i>Through a partnership approach with all relevant organisations, provide facilities and produce information for the public and specific interest groups</i>	<i>NE</i>	<i>HIGH</i>
K5	<i>Promote and, where appropriate, update existing or develop new environmental codes of conduct.</i>	<i>Review and where necessary update existing codes of conduct. Through a partnership approach consider the need for new codes of conduct. Ensure existing codes of conduct are made widely available and target to appropriate users and user groups.</i>	<i>NE</i>	<i>LOW</i>
K6	<i>Promote care for the natural environment during use of the</i>	<i>Where possible ensure an environmentally friendly balance between local communities, conservation areas and water/tidal land users.</i>	<i>HHML</i>	<i>MEDIUM</i>

*estuary for recreational events*

K7

*Continue to conserve, protect, enhance and raise awareness of the diversity of habitats and species.*

*Ensure that water levels and flows are maintained as close as possible to those present.*

*Ensure that flushing rates are maintained in the event of any impoundments (temporary or permanent) to avoid the further accumulation of land derived pollutants.*

*Have in place mitigating measures to ensure no contamination of the system due to re-suspension of contaminated sediments.*

EA

**HIGH**

***REFER ALSO TO RELEVANT ITEMS B5, D4, E4, F5, F7 & M7***

## L. THE HISTORIC ENVIRONMENT

### Guiding Principles

- ⇒ Ensure, as far as is possible and consistent with other Guiding Principles in this Plan, the protection and enhancement of the historic environment of the estuary and its immediate hinterland, whether statutorily protected or not.

Ref. No.	Strategic Objective	Method of Implementation and Verification	Action With	Priority (and Budget £k)
L1	<i>Improve understanding of the historic character and constituents of the historic environment of the estuary.</i>	<i>Continue to improve the understanding of the character and extent of the sub-tidal, inter-tidal and immediate shoreline historic environment through survey. Establish a mechanism for reporting finds and possible snags, hulks and wrecks to the Historic Environment Record, CCC.</i>	<i>PDC (EH)</i>	<i>LOW</i>
L2	<i>Ensure that key features of the historic environment, including and in addition to those with statutory protection, are protected and managed in a sustainable way.</i>	<i>In a partnership among the RO's, monitor the condition of the historic environment and review management as necessary. Through partnership with owners and managers, establish positive management agreements/projects to conserve and enhance sites and features. In partnership with Penwith District Council and Cornwall County Council Spatial Planning Teams and Historic Environment Service, manage change and protect key features through Development Control.</i>	<i>PDC (EH)</i>	<i>HIGH</i>
L3	<i>Research and review the effects of public access and recreation on key historic features.</i>	<i>In partnership with Interested Parties and the Cornish Mining World Heritage Site Office, develop projects and interpretation strategies to raise awareness and increase understanding of the features, extent and management of the historic environment of the estuary and its hinterland. In partnership with the WHS Office, raise awareness of the international significance of Hayle/Copperhouse as historic ports and centres of industry.</i>	<i>PDC (EH)</i>	<i>MEDIUM</i>
L4	<i>Promote understanding of the economic and social benefits provided by the estuary and its immediate hinterland.</i>	<i>In partnership with the World Heritage Site Office and other bodies, research and demonstrate the economic and community benefits of the historic environment of the Estuary and its immediate hinterland</i>	<i>PDC (EH)</i>	<i>LOW</i>
<b>REFER ALSO TO RELEVANT ITEMS B5 &amp; F1</b>				

## M. INTERPRETATION AND EDUCATION (NEW)

### Guiding Principles

- ⇒ To raise environmental awareness of the estuarine system and promote responsible uses of resources through education and interpretation.
- ⇒ Ensure that through public awareness and appreciation, the historic environment of the Hayle Estuary, above and below water, is valued and damage is minimised.
- ⇒ To use interpretation to develop tourism and business within Hayle.
- ⇒ To provide education to all users and volunteers to ensure the management of the estuary can be co-ordinated and resources used effectively.

Ref. No.	Strategic Objective	Method of Implementation and Verification	Action With	Priority (and Budget £k)
M1	<i>Promote public understanding and enjoyment of the historic environment of the estuary and its immediate hinterland.</i>	<i>In partnership with Interested Parties and the Cornish Mining World Heritage Site Office, develop projects and interpretation strategies to raise awareness and increase understanding of the features, extent and management of the historic environment of the estuary and its hinterland.  In partnership with the WHS Office, raise awareness of the international significance of Hayle/Copperhouse as historic ports and centres of industry.</i>	<i>PDC (EH)</i>	<i>MEDIUM</i>
M2	<i>Foster the wider understanding of the estuary landscape, natural processes and human influences that have contributed to the development of the natural features and character of the estuary we see today.</i>	<i>Through a partnership approach with all RO's, provide facilities and information for the public and specific interest groups.  Through a partnership approach with all relevant organisations, seek to enhance opportunities for the public and specific interest groups to experience directly the special character of the estuary where this does not damage other interests.</i>	<i>NE</i>	<i>MEDIUM</i>
M3	<i>Maintain and raise awareness of the likely affects of climate change and sea level rise on flooding and future evolution of the estuary.</i>	<i>Contribute to promoting better public understanding of the likely implications for Hayle estuary of climate change and sea level rise.</i>	<i>EA</i>	<i>MEDIUM</i>
M4	<i>Promote the use of volunteer groups to educate the general public and tourists about the estuary and its environs.</i>	<i>Provide access to individual company meeting rooms to facilitate meetings on a regular basis.</i>	<i>ALL</i>	<i>MEDIUM</i>
M5	<i>Promote the need to reduce rubbish and water pollution.</i>	<i>Develop and implement educational campaigns to raise awareness of the problems of litter with local schools and community groups. Promote an ethos that all user groups and the general public take their litter home or dispose of it appropriately.</i>	<i>CCC/PDC</i>	<i>HIGH</i>

M6	<i>Educate and receive the support of the general public in recognising marine related crime and provide an easy method of reporting any incident.</i>	<i>Actively support a neighbourhood watch scheme</i>	<i>EM</i>	<i>MEDIUM</i>
		<i>Review signage and incident reporting procedures to port security</i>	<i>HHML</i>	<i>LOW</i>
		<i>Examine the usefulness of user based systems such as Marine Watch or Boat Watch.</i>	<i>HHML</i>	<i>MEDIUM</i>
		<i>Obtain the insurance industries ideas on this.</i>		
M7	<i>Foster the wider understanding of the significance of sensitive sites, habitats and species in and around the estuary.</i>	<i>Identify sensitive sites, habitats and species.</i>	<i>NE</i>	<i>HIGH</i>
		<i>Investigate producing specific advisory notes targeted to users and/or user groups.</i>		
		<i>Improve the on-site and remote interpretation of the estuary and its special features.</i>		
<b><i>REFER ALSO TO RELEVANT ITEMS C5, D4, F7 &amp; L3</i></b>				

## SECTION C: OPPORTUNITIES FROM ING DEVELOPMENT

The ING proposals for the harbour lands must not deter the HEMP Forum from their responsibilities to manage the estuary through the guiding principles that are provided above. Although relevant, the harbour lands development must remain separate whilst still meeting the guidelines, legislation and other agreements made within this Estuary Management Plan.

### N. HARBOUR LANDS DEVELOPMENT (NEW)

#### Guiding Principles

- ⇒ Monitor any changes to the proposals as already submitted for consultation.
- ⇒ Identify opportunities for integrated improvements to the estuary as a result of the proposals.

Ref. No.	Strategic Objective	Method of Implementation and Verification	Action With	Priority (and Budget £k)
N1	<i>Advise of any changes to previously submitted or published plans and documents</i>	<i>To be undertaken by the developer and advised to IP's on a periodic basis</i>	<i>ING</i>	<i>LOW</i>
N2	<i>Without prejudice to the ING development plans, Work with IP's to promote the integrated management of the Estuary</i>	<i>Promote the ongoing liaison between IP's and ING to maximise current and future proposals for the Harbour Lands as and when funding opportunities arise.</i>	<i>EM</i>	<i>LOW</i>
<b>REFER ALSO TO RELEVANT ITEMS F (ALL)</b>				

## SECTION D: ABBREVIATIONS USED IN THIS PLAN

BAP	-	Biodiversity Action Plan	IPs	-	Interested Parties
CABE	-	Commission for Architecture and the Built Environment	LEAP	-	Local Environment Agency Plan
CCC	-	Cornwall County Council (to become a Unitary Authority in 2009)	MCS	-	Marine Conservation Society
CFMP	-	Catchment Flood Management Plan	MLWS	-	Mean Low Water Springs
CSFC	-	Cornwall Sea Fisheries Committee	PDC	-	Penwith District Council (to become a Unitary Authority in 2009)
DEFRA	-	Department for Environment, Food and Rural Affairs	NE	-	Natural England
EA	-	Environment Agency	RE	-	River Ecosystem
EC	-	European Commission	ROs	-	Responsible Organisations
EM	-	Estuary Manager	RQO	-	River Quality Objective
EMP	-	Estuary Management Plan	RSPB	-	Royal Society for the Protection of Birds
HEMP	-	Hayle Estuary Management Plan	RYA	-	Royal Yachting Association
HHA	-	Hayle Harbour Act 1989 and Byelaws	SAFFA	-	Salmon and Freshwater Fisheries Act
HHAC	-	Hayle Harbour Advisory Committee	SMP	-	Shoreline Management Plan
HHML	-	Hayle Harbour Management Limited	SSSI	-	Site of Special Scientific Interest
HTC	-	Hayle Town Council	SWRDA	-	South West of England Regional Development Agency
ICZM	-	Integrated Coastal Zone Management	UA	-	Unitary Authority of Cornwall
ING	-	ING RED UK (Hayle Harbour) Ltd.	WHS	-	World Heritage Site

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