

# South Hams Salcombe Harbour Board



<b>Title:</b>	<b>Agenda</b>								
<b>Date:</b>	<b>Monday, 18th March, 2024</b>								
<b>Time:</b>	<b>2.30 pm</b>								
<b>Venue:</b>	<b>Cliff House, Salcombe</b>								
<b>Full Members:</b>	<p style="text-align: center;"><b>Chairman</b> Cllr Long</p> <p style="text-align: center;"><b>Vice Chairman</b> Mr I Stewart</p> <p><i>Members:</i></p> <table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">Ms K Allen</td> <td style="width: 33%;">Cllr McKay</td> </tr> <tr> <td>Cllr Bonham</td> <td>Mr A Owens</td> </tr> <tr> <td>Mr P Brown</td> <td>Mr C Plant</td> </tr> <tr> <td>Cllr Dennis</td> <td>Mr I Shipperley</td> </tr> </table>	Ms K Allen	Cllr McKay	Cllr Bonham	Mr A Owens	Mr P Brown	Mr C Plant	Cllr Dennis	Mr I Shipperley
Ms K Allen	Cllr McKay								
Cllr Bonham	Mr A Owens								
Mr P Brown	Mr C Plant								
Cllr Dennis	Mr I Shipperley								
<b>Interests – Declaration and Restriction on Participation:</b>	Members are reminded of their responsibility to declare any disclosable pecuniary interest not entered in the Authority's register or local non pecuniary interest which they have in any item of business on the agenda (subject to the exception for sensitive information) and to leave the meeting prior to discussion and voting on an item in which they have a disclosable pecuniary interest.								
<b>Committee administrator:</b>	Democratic.Services@swdevon.gov.uk								

- 1. Apologies for Absence**
- 2. Minutes** **1 - 4**  
to approve as a correct record the minutes of the meeting of the Board held on 13 November 2023;
- 3. Urgent Business**  
brought forward at the discretion of the Chairman;
- 4. Division of Agenda**  
to consider whether the discussion of any item of business is likely to lead to the disclosure of exempt information;
- 5. Declarations of Interest**  
In accordance with the Code of Conduct, Members are invited to declare any Disclosable Pecuniary Interests, Other Registerable Interests and Non-Registerable Interests including the nature and extent of such interests they may have in any items to be considered at this meeting;
- 6. Public Question Time**  
a period of up to 15 minutes is available to deal with questions from the public;
- 7. Health & Safety Issues - Standing Agenda Item**
- 8. Harbour Master's Report - Standing Agenda Item** **5 - 26**
- 9. Marine Decarbonisation Presentation**
- 10. Water Quality Update**
- 11. Harbour Workshop: Project Update**
- 12. Feedback from Harbour Community Forums**  
to receive verbal reports from Board Members who attend the Harbour Community Forums on behalf of the Board.

**MINUTES OF THE MEETING OF  
THE SALCOMBE HARBOUR BOARD  
HELD AT CLIFF HOUSE, SALCOMBE, ON MONDAY, 13 NOVEMBER 2023**

<b>Members in attendance</b>			
* Denotes attendance		∅ Denotes apology for absence	
*	Cllr L Bonham	*	Ms K Allen
*	Cllr S Dennis	*	Mr P Brown
*	Cllr M Long (Chairman)	*	Mr A Owens
*	Cllr J McKay	∅	Mr C Plant
		*	Mr I Shipperley
		*	Mr I Stewart

**Other Members in attendance and participating:**  
None

Item No	Minute Ref No below refers	Officers in attendance and participating
All agenda items		Director of Place & Enterprise; Salcombe Harbour Master; Head of Finance; Deputy Harbour Masters; and Democratic Services Manager

**SH.14/23 APOLOGIES FOR ABSENCE**

It was noted that apologies for absence for this Board Meeting had been received from Mr Plant.

**SH.15/23 MINUTES**

The minutes of the Salcombe Harbour Board meeting held on 18 September 2023 were confirmed as a true and correct record, subject to the following amendment being made to Minute SH.2/23: ‘*Apologies for Absence*’ whereby Mr Brown had submitted an apology for absence (and not Mr Owens) as had been indicated in the published draft version.

**SH.16/23 URGENT BUSINESS**

There were no items of urgent business raised at this meeting.

**SH.17/23 DECLARATIONS OF INTEREST**

Members were invited to declare any interests in the items of business to be considered during the course of the meeting, and the following was made:

Cllrs Bonham and Dennis and Ms Allen, Mr Owens and Mr Stewart each declared a Disclosable Pecuniary Interest in all related agenda items by virtue of paying harbour duties. As set out at the previous Board meeting (Minute SH.3/23 refers), the Monitoring Officer had granted each of these Members a dispensation and they were therefore able to take part in the debate and vote on any related matters.

**SH.18/23 PUBLIC QUESTION TIME**

In accordance with the Public Question Time Procedure Rules, there was no questions raised at this Meeting.

**SH.19/23 FEEDBACK FROM HARBOUR COMMUNITY FORUMS**

The Board received verbal update reports from those Members who attended the Harbour Community Forums. The updates were given as follows:

**Salcombe Kingsbridge Estuary Conservation Forum (SKECF)**

The representative did not provide a direct update to the Board but highlighted the relevance of the presentation on Water Quality Monitoring that was to follow this agenda item (Minute SH.20/23 below refers).

**South Devon & Channel Shellfishermen**

The representative advised that the Shellfishermen were generally content and the industry had experienced a good summer season.

**Kingsbridge and Salcombe Marine Business Forum**

The Board was informed that the Business Forum was currently assessing the performance over the summer season and would then look to establish its plans and preparation work for future years.

Since the representative had only recently been appointed to the role, she committed to providing further performance intelligence to future Board meetings and commented that it was already her impression that several local businesses were working very collaboratively with one another.

**Kingsbridge Estuary Boat Club (KEBC)**

It was noted that the Club and Harbour Authority continued to liaise on an almost daily basis and working relationships between the two remained very positive.

**East Portlemouth Parish Council**

In light of the views expressed at the last Board meeting (Minute SH.8/23), the Chairman informed that correspondence had been sent to all of the town and parish councils that adjoin the Estuary. This communication had highlighted the agenda for this Board meeting and specifically referenced the ability for members of the public to both attend and ask questions at Board meetings. It was intended that this practice would continue before future Board meetings and it was therefore felt that East Portlemouth Parish Council no longer needed to be a recognised standalone Harbour Community Forum.

**SH.20/23 PRESENTATION ON WATER QUALITY MONITORING**

The Chairman introduced Mr Nigel Mortimer (Estuaries Officer) and Ms Emma Magee (Environment Agency Officer) who conducted a presentation to the Board on Water Quality Monitoring in the Estuary.

In so doing, both speakers concluded that, whilst the Estuary was in relatively good health, there was plenty of room for improvements to be made.

Having been informed that there were some measures that could be taken by the Harbour Authority to further improve water quality (e.g. communications with resident harbour users, buoying off channels, vessels not anchoring in certain areas etc), it was agreed that a Working Group of Members should be appointed and tasked with considering the merits of each of these measures before reporting back to a future Board meeting.

It was then:

**RESOLVED**

That a Working Group (comprising of Cllrs Long and McKay and Messrs Owens and Shipperley) be established to consider potential measures that can be taken by the Harbour Authority to improve water quality, with the findings of the Group being reported back to a future Board meeting.

**SH.21/23 REVENUE BUDGET MONITORING 2023/24**

The Board considered a report that updated it on income and expenditure variations against the approved budget and forecasts the year end position.

In discussion, thanks were expressed to both the Harbour Master and the Head of Finance for producing such a comprehensive report.

It was then:

**RESOLVED**

That the forecast income and expenditure variations for the 2023/24 Financial Year and the projected surplus of £33,400 be noted.

**SH.22/23 FEES AND CHARGES 2024/25**

The Board considered a report that proposed the Fees and Charges for 2024/25 to ensure that the Harbour achieved a balanced revenue budget.

In discussion, particular reference was made to:-

- (a) the effectiveness of the recent Board Workshop. A number of Members commented on how useful the recent Workshop had been and recognised that the conclusions from this session had been reflected in the published agenda report;
- (b) the proposed increases to resident mooring charges. Whilst accepting the justification for the proposed increases that were set out in the published agenda report, a Member highlighted his slight reservations that residents would see larger proportionate increases in comparison to visitors;

- (c) the development of a Communications Strategy to underpin the revised Fees and Charges schedule. Having been informed that officers were intending to produce an 'end of season' newsletter for all berth holders that would include reference to the revised Fees and Charges, it was agreed that Ms Allen would contact the Harbour Master outside of this meeting to provide support in the production of this document.

It was then:

### **RECOMMENDED**

That the Board **RECOMMEND** that the Executive **RECOMMEND** to Full Council that the proposed fees and charges (as set out at Appendix 1 of the published agenda report) be approved for implementation from 1 April 2024 in order to meet the 2024/25 Budget gap of £77,000.

SH.23/23

### **HARBOUR MASTER'S VERBAL REPORT**

The Harbour Master presented a verbal update that made particular reference to:

- Brady Construction Services Limited having recently entered liquidation. Since the company had been responsible for the construction of the Harbour Depot, officers were currently in dialogue with the liquidators, however, at the time of this meeting, there was no further update that could be provided to Members. Nonetheless, since the project was so near to completion, officers were confident that it could be finalised by using in-house resources and expertise. As a general point, the Harbour Master was incredibly proud of the Depot and he looked forward to being in a position to be able to conduct a Board Member site visit of the final operating facility. In recognition of the many difficulties that had been experienced from the offset of this project, Members wished to put on record their thanks for the tireless work of lead officers in reaching this point;
- the lifting team and engineers having done a magnificent job in completing their winter storage works;
- contract divers currently being on-site to undertake vital work on the maintenance of the deep water moorings;
- a member of the team having expressed an interest in studying for the Harbour Master's Diploma accreditation. The Harbour Master stated his support for continual staff development and growing in-house talent and was fully committed to supporting the team member in his studies;
- an upcoming prosecution against an individual for their behaviour on the Harbour. Whilst the details could not be disclosed at a public meeting, Members hoped that this action would be seen as a deterrent and the Harbour Master committed to providing an update on the outcome of the court case at a future Board meeting.

(Meeting commenced at 2:30 pm and concluded at 4.15 pm)

Report to: **Salcombe Harbour Board**  
Date: **20 March 2023**  
Title: **Harbour Master's Report**  
Portfolio Area: *Salcombe Harbour*  
Wards Affected: **All**  
Relevant Scrutiny Committee: **Overview and Scrutiny Panel**  
Urgent Decision: **N** Approval and clearance obtained: **Y**

Author: **Cameron Sims-Stirling** Roles: **Harbour Master**

Contact: **Tel. 01548 843791**

**E-mail: [cameron.sims-stirling@swdevon.gov.uk](mailto:cameron.sims-stirling@swdevon.gov.uk)**

## **RECOMMENDATION:**

**That the Board RESOLVES to note and endorse the content of the Harbour Master's report.**

## **1. Executive summary**

- 1.1 This report updates the Board on a number of recent issues affecting the Harbour. The report updates on a service performance, major projects and any other issues which impact upon the Harbour.
- 1.2 To align this report with the Salcombe Harbour Strategic Business Plan, the standard titles will fall under Customer Excellence, Safety and the Environment. Draft 5 year Strategic Business Plan to be distributed to board members via email for member feedback ahead of stakeholder consultation and ratification in June.
- 1.3 Annual inspection, harbour board meeting and workshop/depot opening will be held (all day) on Wednesday, 12<sup>th</sup> June.

## **2. Customer Excellence**

- 2.1 **Feedback from Harbour Forums** – agenda item 12 refers.
  - 2.1.1 **Salcombe-Kingsbridge Estuary Conservation Forum**

### 2.1.2 Kingsbridge Estuary Boat Club

(Club meeting held on 21 February 2024 attended by Senior Mooring Officer)

### 2.1.3 South Devon and Channel Shell Fishermen

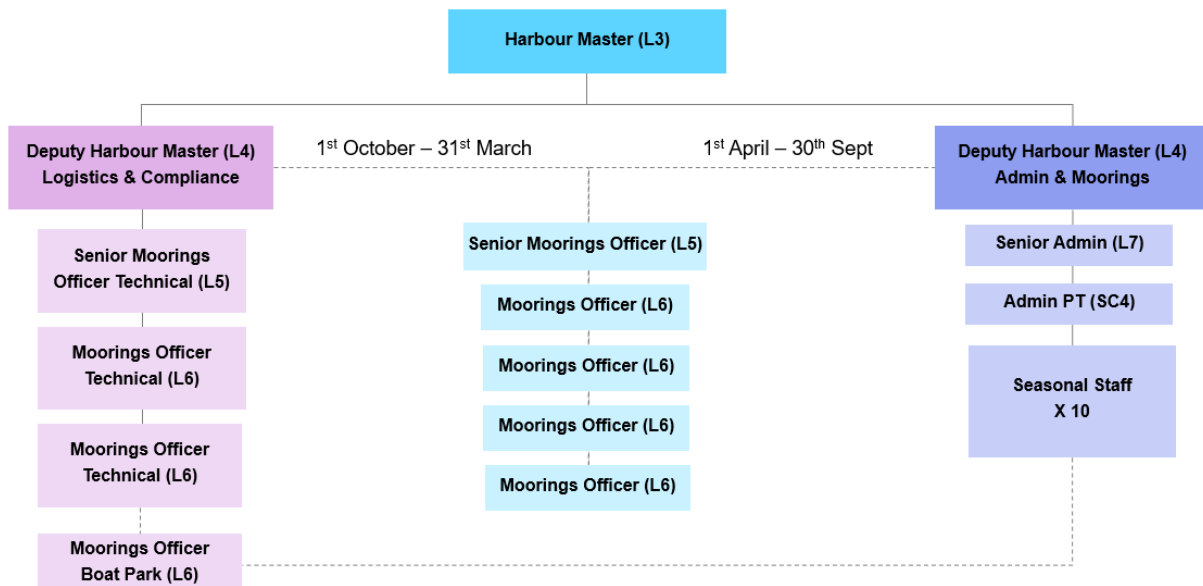
IFCA investigating reports of illegal fishing (netting) within the harbour in early March.

Following extensive consultation IFCA have voted to maintain the current Ban on Netting in Salcombe Harbour.

### 2.1.4 Kingsbridge and Salcombe Marine Business Forum

## 2.2 Staff structure

The below structure is retained as had been formalised last year. Following the resignation of our most recent Mooring Officer appointment in December we have since conducted a new recruitment process and have appointed Chris Roberts, who has already started work.



## 2.3 Commercial Units

Now fully occupied and offering valuable boatyard, rigging and engineering services.



## 2.4 **Performance Indicators**

The Harbour Board endorsed the introduction of a set of Performance Indicators (PIs) and to have them reported as a standing agenda item (SH 26/06). The Performance Indicators (PI's) are presented in a seasonal format and will expand and demonstrate patterns going forward with both our summer and winter PI's.

*(Please see Appendix 1 and 2)*

### 2.4.1 **Winter Performance Indicators** – Appendix 1

Appendix 1 shows the harbour has satisfied most of its normal winter performance markers. Mooring maintenance is now in the spring cleaning and seasonal facility installation stage as opposed to the physical checking and changing of mooring components. The workshop team are currently focussing on launching Zone 1 boats before the early Easter holidays, handing back the majority of the car park and boat park to normal operations. Refitting of the harbour launches will continue in the background to enable the staggered deployment of vessels as the season progresses.

### 2.4.2 **Facility Turnover** – Appendix 2

Appendix 2 reflects in what areas our facilities are being given up and reallocated and should aid us in the future to make informed decisions on any further projects. Of particular note, as per previous years, a number of facilities have been removed for non-payment of SHDC Council Tax, misuse or where vessels have been deemed unsafe to continue to berth, as opposed to having been relinquished as no longer required. With an almost exact average over the moorings given up as last year, turnover is stable. The only notable point is that 20 pontoon berths at Batson were relinquished which is high but this was balanced by a very small numbers on the other shore connected pontoons. For the first time in 4 years there are unallocated moorings at the head of Frogmore Creek but this may change over the course of the season.

### 2.4.3 **Options available and consideration of risk**

Monitor and report; periodically review PIs for their utility.

#### 2.4.4 **Proposed Way Forward**

Continue monitoring PIs with regular reports back to the Board.

### **3. Safety**

#### 3.1 **Safety moment**

(New standing agenda item 7).

3.1.1 06/03/24 Navigation buoy damaged and temporarily unlit, reported to Trinity House via LARS system, LNTM published. Rectified 07/03/24.

#### 3.2 **Project/Procurement update**

##### 3.2.1 **Harbour Depot**

Now fully moved in having vacated the first floor of the old workshop at Island Square, Island Street. Currently working through new compliance, SOP's and RAMS's with external shoreside H+S consultant Peninsular.

##### 3.2.2 **Harbour Barge**

Looking to start procurement in new financial year.

##### 3.2.3 **Harbour Office**

Re-engage with SHDC assets.

#### 3.3 **Designated person**

The Harbour Master to bring report to and be in attendance at the next Board Meeting, 12<sup>th</sup> June. DP Audit date TBC.

#### 3.4 **Internal Audit** – Appendix 3 refers

Internal SHDC audit recently undertaken and the Executive Summary is attached at Appendix 3. A full copy of the audit report is available by request.

#### 3.5 **Training**

- 3.5.1 Mooring Officer James Maltby registered for PMSC IDG Course as part of enrolment requirement for HM Diploma.
- 3.5.2 SWRPA mooring workshop attended 13/03/24 covering mooring configuration, component and material discussions including external legal and insurance advice on responsibility and policy.
- 3.5.3 2 members of staff completed VHF/DSC licence course.

## **4. Environment**

### **4.1 Response**

- 4.1.1 Oil Pollution Prevention Preparedness, Response and Cooperation OPRC annual compliance submitted.
- 4.1.2 3 yearly Incident Management Exercise completed last in 2023.
- 4.1.3 4P refresher training completed by HM.
- 4.1.4 2P course training requirement for new boatman.

### **4.2 Carbon neutral**

SHDC's Climate and Biodiversity target includes for carbon emissions to hit net zero for the organisation by 2030. Projects looking to tackle SHA emissions are being resourced through the Council's UKSPF programme. Progress on projects to improve our carbon footprint updated below.

- 4.2.1 The carbon footprint of SHA marine assets has been assessed by the Carbon Trust, reported in last year's March paper.
- 4.2.2 Work has now begun to analyse all other harbour users carbon footprints via the analysis of Harbour Dues and associated data.
- 4.2.3 In 2023 the Environment Agency EA conducted their 5 yearly seagrass survey, results yet to be published, to be summarised in a future paper.
- 4.2.4 Recently we have facilitated the commissioning of an Unmanned Survey Vessel USV which has also surveyed our seagrass beds using AI to recognise distinct sonar returns.
- 4.2.5 Various stakeholders and funding partners are working toward the re-establishment of reinstall Advanced Mooring Systems to help protect areas of the seabed from the working scope of a traditional

chain arrangement. Funding offered to help facilitate installation and ongoing maintenance.

4.2.6 As part of our Batson Depot development SHA has invested in a new white diesel bowser to facilitate ashore plant (that can no longer utilise red diesel) and boats where necessary. This reduces the chance of spills in comparison to using 20l cans. We are now trail running HVO to assist with the reduction of our emissions.

#### 4.3 **Zero emissions workboats** – Appendix 4

The ZENOW project, led by RS Electric Boats with 15 UK marine entities, plans to introduce twenty electric workboats with £5.4 million funding, including a £4.1 million UK SHORE and Innovate UK grant. Set for delivery by March 2025 to ten UK locations, the fleet features Pulse 63s and Cheetah Marine models with RAD Propulsion electric drives. A three-year demonstration will collect data to optimise electric boat operations and promote global electric adoption in small harbours and marinas. This initiative aims to reduce emissions, offer a model for electric transition in maritime operations, and position the UK as a leader in green maritime technology.

Appendix 4 shows a rendered image of the Pulse patrol rib scheduled for delivery in 2024.

#### 4.4 **Water Quality**

(Agenda item 10 refers).

### 5. **Implications**

Implications	Relevant to proposals Y/N	Details and proposed measures to address
Legal/Governance	Y	The Pier and Harbour (Salcombe) Confirmation Order 1954.
Financial	Y	Any financial implications arising from this report will be funded from the General (Revenue Account) Reserve under delegated authority.
Risk	N	None directly arising from this report.
Supporting Corporate Strategy		None directly arising from this report.
Climate Change – Carbon / Biodiversity Impact		None directly arising from this report.

Comprehensive Impact Assessment Implications		
Equality and Diversity	N	None directly arising from this report.
Safeguarding	N	None directly arising from this report.
Community Safety, Crime and Disorder	N	None directly arising from this report.
Health, Safety and Wellbeing	N	None directly arising from this report.
Other implications	N	None directly arising from this report.

### **Supporting Information**

#### **Appendices:**

- 1 – Winter Performance Measures;
- 2 – Facility Turnover;
- 3 – Internal Audit report; and
- 4 – Zero emissions workboats.

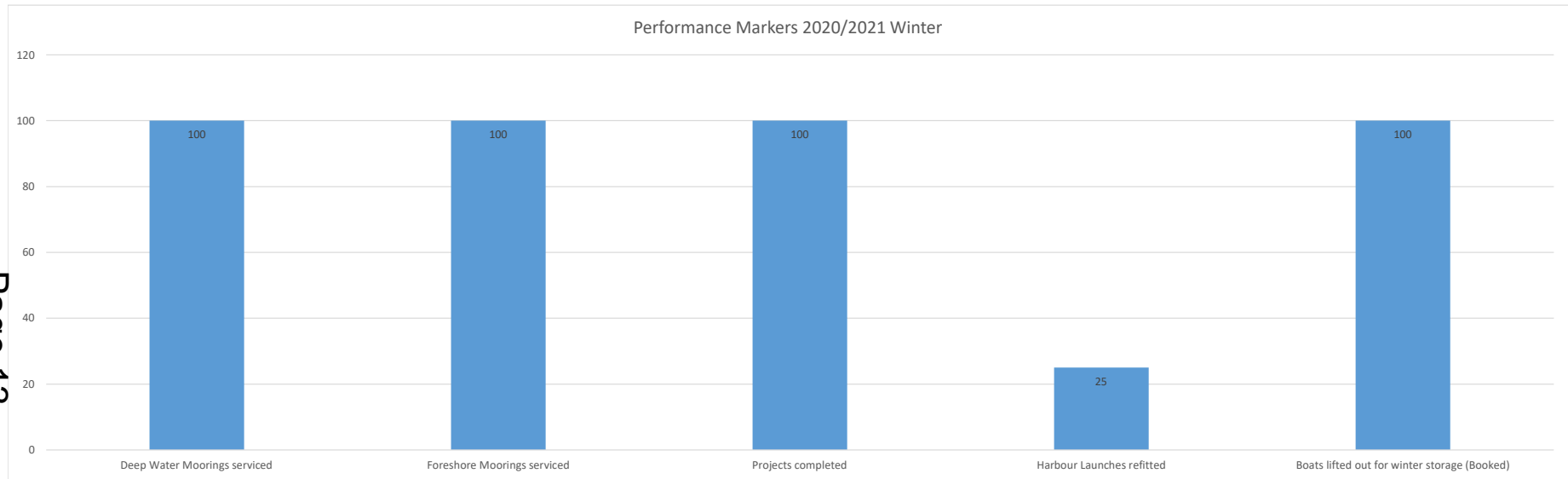
#### **Background Papers:**

None

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**Performance Markers 2023/2024 Winter - Appendix 1**

	<i>As at 10/03/2023</i>	<i>Total</i>	<i>Percentage</i>	<i>Comments</i>
<i>Deep Water Moorings serviced</i>	291	291	100	Completed working alongside our Dive Contractor (Nov-Dec for a duration of 25days, including pile testing). Visitor buoys currently being painted.
<i>Foreshore Moorings serviced</i>	578	578	100	Complete and currently undergoing cleaning and painting.
<i>Projects completed</i>	1	1	100	Harbour Depot.
<i>Harbour Launches refitted</i>	3	12	25	The two main boatman launches and the first taxi are ready for service.
<i>Boats lifted out for winter storage (Booked)</i>	119	119	100	Launching has just begun and will continue in 2 stages until the end of April.



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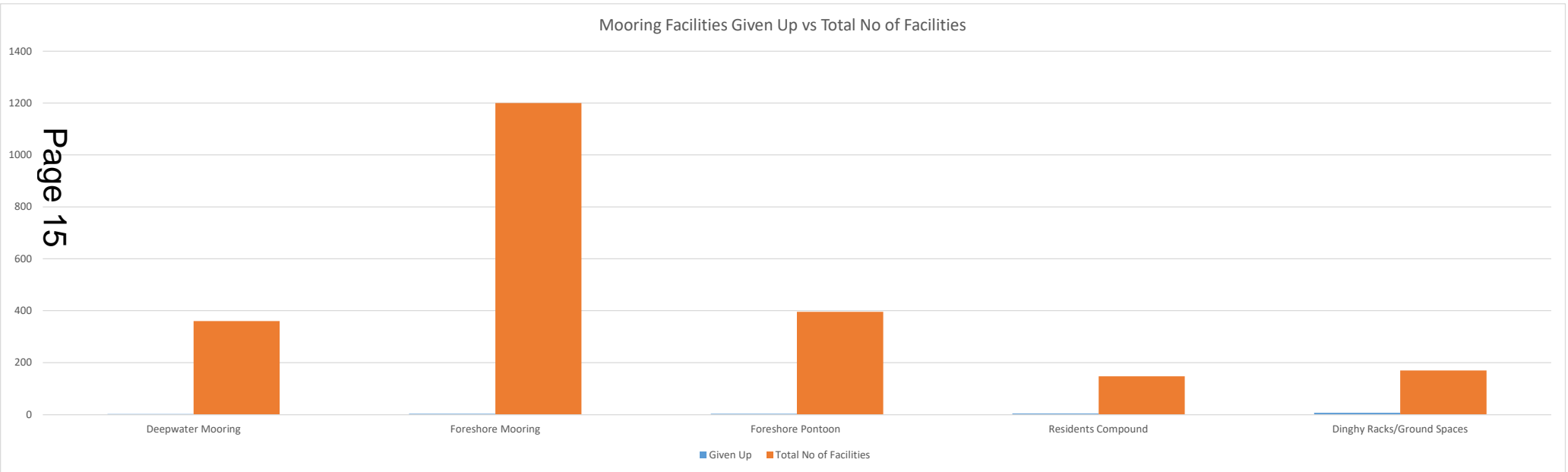
**Facility turnover 2024 - Appendix 1**

Location	Total No of berths	Number Given Up 2024	% Given Up 2023	% Given Up 2022	% Given Up 2021	% Given Up 2020
Deepwater Mooring	360	9	3	3	3	4
Foreshore Mooring	1200	32	3	2	2	2
Foreshore Pontoon	396	24	3	3	2	4
Residents Compound	147	6	4	2	1	4
Dinghy Racks/Ground Spaces	170	12	7	11	4	3

4.2                      4.2                      2.4                      3.4                      Average %

Location	Berths
Batson	257
Shadycombe	63
Victoria Quay	76
<b>Total:</b>	<b>396</b>
Batson Dingy Rack	36
Kingsbridge Slip	15
Newbridge (Both)	102
Whitestrand (Both)	17
<b>Total:</b>	<b>170</b>
<b>Residents Compound</b>	<b>147</b>

Mooring Facilities Given Up vs Total No of Facilities



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# Internal Audit Report - Final Salcombe Harbour 2023-24 South Hams and West Devon

March 2024

Official



devon **audit partnership**  
Auditing for Achievement

## Service Objective

To manage and improve the Salcombe Harbour and Kingsbridge Estuary for a variety of users in the most economically, environmentally and effective manner to ensure it is used appropriately and safely.

## Audit Opinion

**Reasonable Assurance** - There is a generally sound system of governance, risk management and control in place. Some issues, non-compliance or scope for improvement were identified which may put at risk the achievement of objectives in the area audited.

17

## Risks or Areas Covered

- key concerns or unmitigated risks

### Inadequate governance structures in place.

- Good governance arrangements are in place.
- Risks; business continuity plan, data management and stores

**Strategic management and related long-term plans are insufficiently robust.**

**Payments to employees are as expected.**

### Income and Expenditure.

- Risks; Harbour software system controls and separation of duties.
- Evidence of independent checks.

### Breach of Port Marine Safety Code.

- Some areas for ongoing improvement

*These areas / risks combine to provide the overall audit assurance opinion. Definitions of the assurance opinion ratings can be found in the Appendices. The observations and findings in relation to each of these areas has been discussed with management, see the "Detailed Audit Observations and Action Plan" appendix A. This appendix records the action plan agreed by management to enhance the internal control framework and mitigate identified risks where agreed.*

**Level of Assurance**

**Reasonable Assurance**

**Substantial Assurance**

**Substantial Assurance**

**Reasonable Assurance**

**Substantial Assurance**

## Introduction

The audit objective was to confirm appropriate controls over the range of Harbour operations to ensure risk was appropriately managed. This included review of Harbour governance arrangements, strategy, and to confirm that financial assessment and performance are regularly reported.

A review of the Council's governance arrangements resulted in the Executive assuming the role of duty holder for the purposes of the Port Marine Safety Code (PMSC) and the Harbour Board becoming an advisory board to the Executive. The Board will provide advice and assistance to the Executive so that it can take account of the needs of the Harbour as a business and an environmental and community asset and the commercial realities of municipal port operations.

## Executive Summary

We are able to confirm that appropriate governance arrangements are in place with a properly constituted Executive and Harbour Board, an experienced Harbour Master and supporting officers. Officer, Board and Executive members have received suitable training and good governance arrangements are in place. The Council has completed the review of its governance arrangements for the Harbour and has adopted the Executive in the role of the duty holder. We have identified the need for the Executive and Harbour Board members to formerly accept these requirements, now actioned.

Substantial work is being undertaken to update the Port Marine Safety Code (PMSC) and implement a more robust safety management structure and risks are mitigated, including regular independent inspections. The Harbour was subject to an independent review of the PMSC in 2021 and is finalising its updated code and related regulations ready for a further inspection at the time of this audit report. The initial review highlighted areas for improvement, such as providing a good safety management structure, but overall we can confirm compliance with the PMSC. We have included in this report areas of weakness that have been identified and require updating.

Significant work has been completed on the five year plan and this is required to inform the longer term strategic plan. Appropriate capital works are underway and planned, with external funding, to enhance the infrastructure. Costs are being covered by income to provide a balanced budget and plans are in place for next year's budget.

We have made some recommendation related to the PMSC, Business Continuity, the finance software, website improvements and stock systems outlined below. The Harbour does not have a Business Continuity Plan. This should link to the Council plan to cover unexpected disasters or loss of service. All officers need to be aware of the requirements, such as emergency numbers, revised working practices and where to work.

The updated Five Year Business Plan links to Council strategies and is due to be finalised and approved by members. It is good practice for it to be reviewed annually. Officers are also planning to introduce a longer-term strategy document for the Harbour, potentially for 20 years. This is also good practice and should identify potential future risks, such as rising sea levels, and link to a formal Risk and Opportunities Register.

Council finances are subject to regular review by the Harbour Master and Head of Finance and are presented systematically to the Harbour Board with regular update of the budget position. Gross expenditure is set at £1.399 million in the 2023/24 balanced budget. We have raised observations for a number of years around compliance and controls related to the harbour financial software and separation of duties and these are raised again. Although we have not identified any areas of impropriety the harbour system software limitations and lack of evidence of independent checks increases the risk and a reasonable assurance.



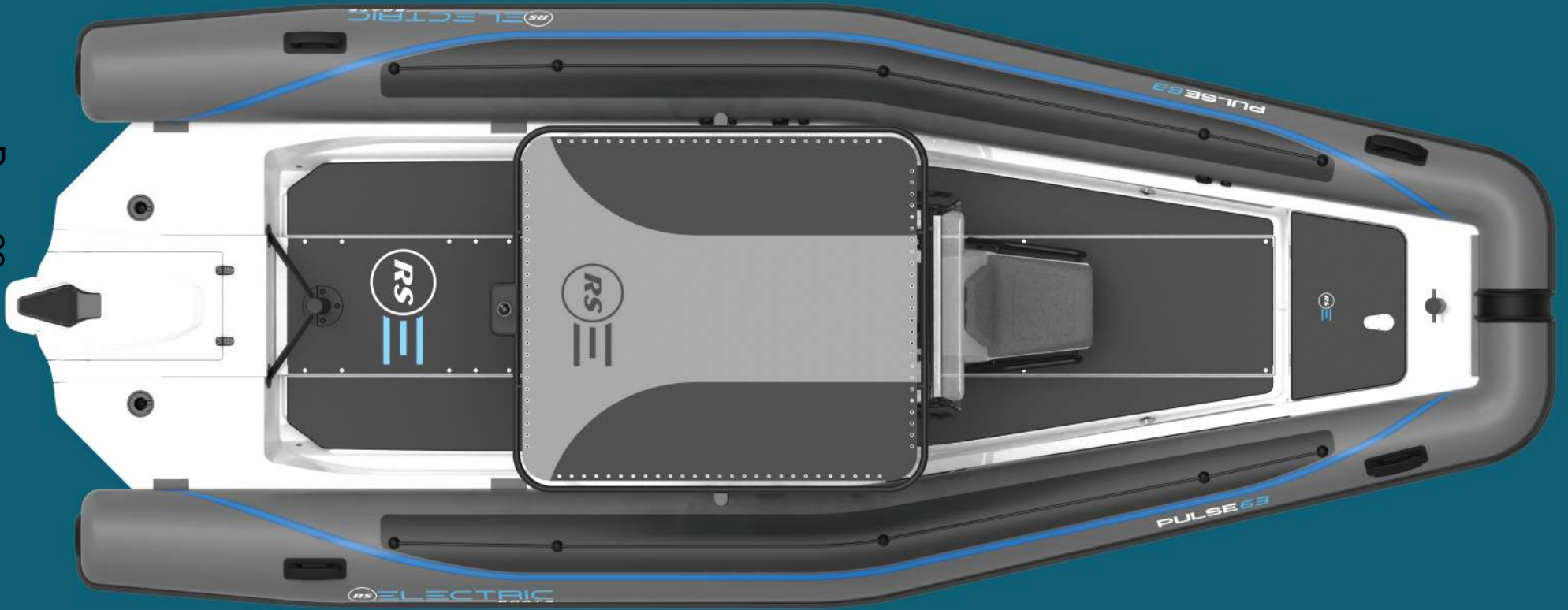




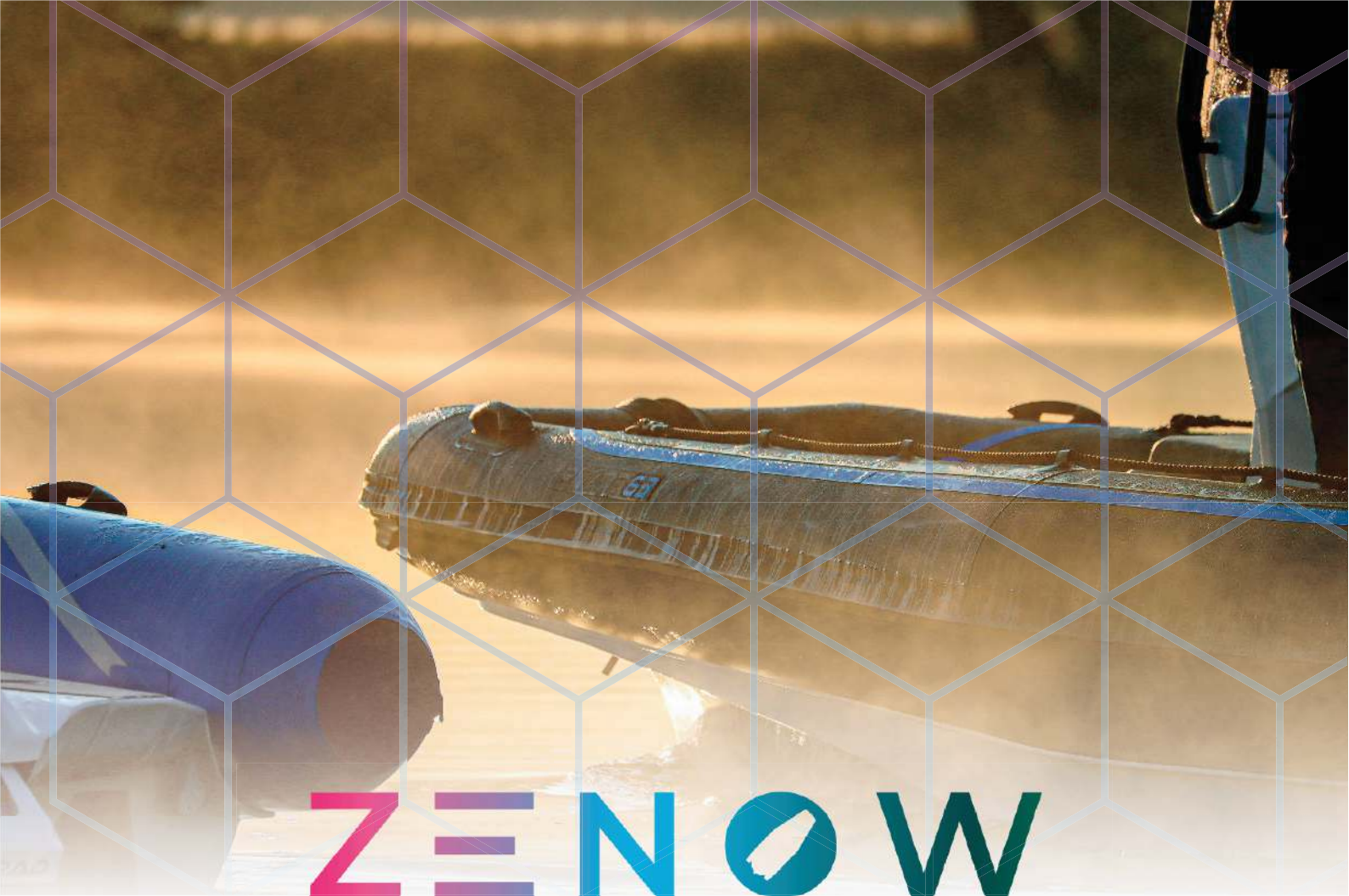








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# ZENOW

ZERO EMISSIONS NETWORK OF WORKBOATS

## VISION

Pioneering a sustainable future for marine industries globally.

## MISSION

Leading the transition to zero-emission maritime operations.

The ZENOW project, led by RS Electric Boats with 15 UK marine entities, plans to introduce twenty electric workboats with £5.4 million funding, including a £4.1 million UK SHORE and Innovate UK grant. Set for delivery by March 2025 to ten UK locations, the fleet features Pulse 63s and Cheetah Marine models with RAD Propulsion electric drives.

A three-year demonstration will collect data to optimise electric boat operations and promote global electric adoption in small harbours and marinas. This initiative aims to reduce emissions, offer a model for electric transition in maritime operations, and position the UK as a leader in green maritime technology.





**TECHNOLOGY, EQUIPMENT AND BUILD PARTNERS**



Develop, build, deliver, commission and support a network of electric workboats and supporting infrastructure

**REGULATION / CERTIFICATION, THROUGH LIFE SUSTAINABILITY AND SUPPORTING INFRASTRUCTURE PARTNERS**



**WORKBOAT OPERATING PARTNERS**



**ENVIRONMENT & ACADEMIC OPERATING PARTNERS**



**MOBILITY, TRAINING & BOAT CLUB OPERATING PARTNERS**



DATA COLLECTION, ANALYSIS AND OUTREACH/DISSEMINATION/LESSONS LEARNED

**EXPLOITATION / IMPACT**

~7000+ Harbours & Ports Globally  
~2000+ Marinas in UK / Europe.  
Defence Industry

**EXPLOITATION / IMPACT**

~1000+ similar agencies and research institutes

**EXPLOITATION / IMPACT**

~10,000+ sailing & training centres, boat clubs and taxi opportunities

The objective of the project is to prove, backed up by real world data that electric workboats can be operated commercially, efficiently and safely at a level of performance equivalent to and in some cases higher than the outgoing petrol and diesel vessels.

**OPERATOR PARTNERS**

**FALMOUTH HARBOUR**  
Harbour master duties

**FOWEY HARBOUR**  
Harbour master duties

**UNIVERSITY OF PLYMOUTH**  
Equipment testing  
Diver training  
Education

**WALCOMBE HARBOUR AUTHORITY**  
Harbour master duties

**RYA**  
Elite and pathway coaching

**Event management**

**PREMIER MARINAS**  
Marina Daily Duties

**Ministry of Defence**  
MOD Daily Duties

**Environment Agency**  
River enforcement

**zero MARINE ZERO EMISSION CHARTER**  
Commercial safety boat operations

**URBAN UTRUANT**  
Water taxi service  
Boat club + Training

- Electric Boat Builder
- RS Pulse 63
- Cheetah 7.9
- Cheetah 8.9