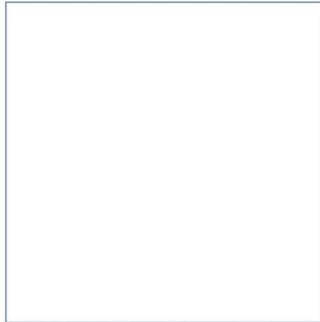
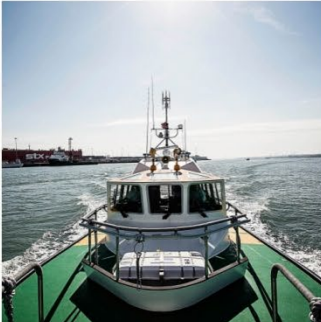
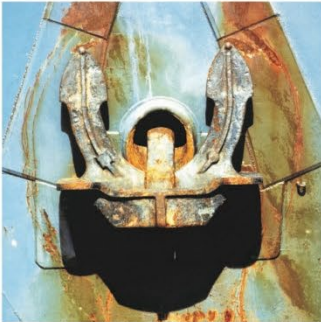
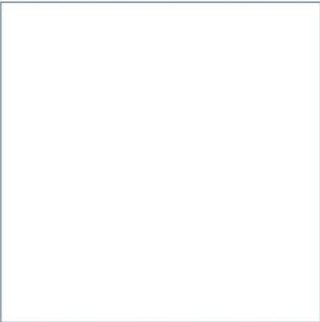
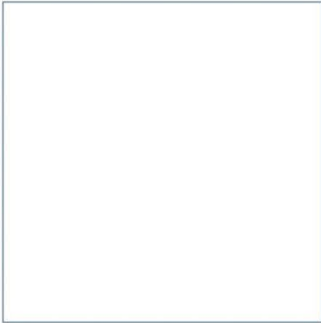


Port of Mostyn

Mostyn Energy Park Extension

Monitoring Plan

April 2025



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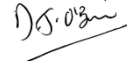
Monitoring Plan

April 2025



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1 Introduction

ABPmer has been commissioned by the Port of Mostyn (PoM) to provide the required ongoing technical support to discharge Marine Licence CML2283 conditions for the Mostyn Energy Park Extension (MEPE) Project. This includes the preparation of a Monitoring Plan (this report) in order to discharge the following CML2283 condition:

- 3.30.1 The Licence Holder must submit a Monitoring Plan to the Licensing Authority for written approval at least 6 weeks prior to commencement of the Licensed Activities. No Licensed Activities may be undertaken prior to written approval from the Licensing Authority.

The basis of the Monitoring Plan is the updated proposed monitoring plan that was developed in response to comments from Natural Resources Wales (NRW) Advisory during the licence determination process. This updated proposed plan was included in an ABPmer letter to the NRW Marine Licensing Team (MLT) dated 17 June 2024 (ABPmer, 2024a).

2 Monitoring Plan

During the marine licence determination phase, NRW Advisory advised in their consultation response to the Further Clarification Report (ABPmer, 2024b) that the higher frequency monitoring as set out in Marine Licence DML1542v2¹ should be continued into the future, particularly given that the main navigation channel will be deepened to 4 m below Chart Datum (CD). A substantive review should then be carried out 5 years post construction of the MEPE Project to determine whether the estuary has settled into a new dynamic equilibrium and to re-assess the frequency of monitoring.

The PoM has agreed to undertake higher frequency monitoring initially as set out in DML1542v2 for Estuary Basis (EB) Tasks and Local Area (LA) Tasks to 4 m below CD, and to produce a substantive review after 5 years following the construction of the MEPE Project. On this basis, the Monitoring Plan is included in Table 1.

The consultation response from NRW Advisory states that the main channel has never been dredged to a depth of 4 m below CD. The applicant would like to clarify that the main channel has not been dredged to a depth of 4 m below CD under the DML1542v2, but was previously deepened to - 4 m CD for the P&O ferry service that operated at the Port of Mostyn between 2002 and 2004.

¹ DML1542v2 was due to expire on 31 March 2025 and has been extended for a further 12 months to ensure that maintenance dredging can still be undertaken as required by the PoM whilst the relevant pre-construction conditions of CML2283 are discharged.

Table 1. Monitoring plan

Task	Frequency	Extent	Analysis and Reporting
Estuary Basis (EB) Definition			
EB1 – Estuary LiDAR survey	Twice in every 5 year period	Between a straight line joining Hilbre Point to Point of Ayr and OSGB Northing 369000.	Difference map of elevation change to previous survey. Reporting in Annual Report.
EB2 – Estuary Transects	Bi-monthly	North, Middle and South transects, as presently defined.	Profile comparison against previous surveys. Reporting in Progress Notes and Annual Report.
EB3 – Mid Hoyle Channel / Welsh Channel confluence	Bi-annual	Channel confluence with southern extents to tie in with Mostyn Deep survey.	Difference map of elevation change to previous survey. Reporting in Annual Report.
EB4 – Mostyn Deep	Annually	Mostyn Deep disposal site out to channel flanks up to 1 m CD.	Difference map of elevation change to previous survey. Reporting in Annual Report.
EB5 – Holocene clay bank	Bi-annual	Visual survey of the Holocene clay bank around (317300, 384400).	Photographic evidence of continued sand cover or mapped extent of exposed clay area (if present). Reporting in Annual Report.
Local Area (LA) Definition			
LA1 – Port of Mostyn (PoM) Approach Channel	Bi-monthly	Survey of main PoM approach channel, harbour area and Mostyn Breakwater disposal site.	Difference map of elevation change to previous survey. Reporting in Progress Notes and Annual Report.
LA2 – Mostyn Deep Site 'A' deposition Area	Before/after each dredge campaign	Deposition area plus 250 m buffer.	Difference map showing spatial extent and depth of deposition and depth of any resultant dispersion.
LA3 – Mostyn Deep grab sampling	Annually	Repeat sampling of 10 sites within Mostyn Deep disposal site.	Particle size analysis and comparison of descriptive grain size statistics against previous survey. Reporting in Annual Report.
LA4 – NRW Cockle Survey	Annually	Cockle survey undertaken by NRW across Dee Estuary cockle beds.	Summary results and conclusions included in Annual Report.

Task	Frequency	Extent	Analysis and Reporting
LA5 – Benthic survey	Annually (potential for additional survey if required by results of first)	Repeat benthic sampling survey at established sample sites.	Comparison of results against previous survey. Reporting in Benthic Survey Report and appended to Annual Report.
LA6 – Port area and cockle area survey	Before/after each dredge campaign	North (382000), east (316500 to 381200) and south (Warwick Point).	Mapping showing effect of channel dredge on western flank of Salisbury Bank.
Reporting			
Progress Reporting	3 x per year		Reporting in February, June and October (annually), summarising results of monitoring surveys undertaken since previous reporting.
Annual Monitoring Report	Annually		Reported results of all monitoring surveys undertaken during the year. To include dredging and disposal tonnages.

3 References

ABPmer (2024a). Mostyn Energy Park Extension Project: Review of consultation comments to Further Clarification in Support of the Marine Licence Application CML2283. ABPmer letter dated 17 June 2024.

ABPmer, (2024b). Mostyn Energy Park Extension Project, Further Clarification in Support of Marine Licence Application CML2283, ABPmer Report No. R.4439, for Port of Mostyn, March 2024.

4 Abbreviations/Acronyms

CD	Chart Datum
CML	Construction Marine Licence
DML	Dredge Marine Licence
EB	Estuary Basis
LA	Local Area
LiDAR	Light Detection and Ranging
MEPE	Mostyn Energy Park Extension
MLT	Marine Licensing Team
NRW	Natural Resources Wales
OSGB	Ordnance Survey Great Britain
P&O	The Peninsular and Oriental Steam Navigation Company
PoM	Port of Mostyn

Cardinal points/directions are used unless otherwise stated.

SI units are used unless otherwise stated.

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