BEEMS MONITORING REPORT MSZ2000 SIZEWELL C CPMMP NOTIFICATION: COMBINED DRAINAGE OUTFALL PRE-INSTALLATION BATHYMETRY (SEPTEMBER 2025)

NOT PROTECTIVELY MARKED

DOCUMENT TITLE	BEEMS Monitoring Report MSZ2000 Sizewell C CPMMP Notification: Combined Drainage Outfall Pre-installation bathymetry (September 2025)

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CONTRACTOR DETAILS

CONTRACTOR NAME	Cefas

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REVISION HISTORY

REVISION	REVISION DATE	PREPARED BY	POSITION/TITLE	CHECKED BY	POSITION/TITLE	APPROVED BY	POSITION/TITLE
01	04/11/2025	Isobel Barnes	Coastal Processes Scientist	Tony Dolphin	Principal Scientist	Andrew Griffith	Principal Scientist

BEEMS Monitoring Report
MSZ2000

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Isobel Barnes

Revision Status/Summary of Changes

Revision	Purpose	Amendment	By	Date
01	P6	Initial submission to SZC Ltd	Cefas	04/11/2025

Version and Quality Control

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Draft	0.01	IB	24/10/2025
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Cefas revision & QC	0.05	AG	03/11/2025
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1 Introduction

This report is a Sizewell C Costal Processes Monitoring and Mitigation Plan (CPMMP) survey notification for the Combined Drainage Outfall (CDO). It follows the plan outlined in the CPMMP (BEEMS MSZ0001) and associated annexes. The aim is to detail the survey undertaken and to verify that the data collected are fit-for-purpose for a pre-installation survey.

2 Survey details

2.1 Survey account

Multi-beam echo sounder (MBES) bathymetry data were acquired by the *Spectrum Nyquist* (Spectrum Offshore Ltd), between the 6th – 9th September 2025.

Data were acquired to IHO Special Order standards. The survey details are summarised in Table 1.

The minimum survey area required by the CPMMP Monitoring Extents, Schedule and Change Register (BEEMS MSZ0050) for the CDO was achieved.

Table 1: Survey details including the survey type, timing and extent as required by the CPMMP Monitoring Extents, Schedule and Change Register (BEEMS MSZ0050), for the CDO pre-installation survey.

Requirement	Details
Survey name	CDO pre-installation bathymetry
Survey dates	4th – 9th September 2025
Survey type	Multi-beam echo sounder (MBES) bathymetry
Survey Contractor	Spectrum Offshore Ltd.
Survey Equipment	Norbit Winghead B51s MBES. Applanix POS MV (motion reference unit and DGPS corrections) Valeport SWiFT sound velocity profiler
Purpose	To establish the bathymetry at the CDO head location for post-installation impact assessment
Timing	To be undertaken less than 3 months before installation. Current scheduling has the CDO construction starting in mid-November 2025.
Extent	50 x 50 m centred on the CDO head (Figure 1)

3 Results and conclusions

3.1 Suitability of data and observations

The full survey acquired by *Spectrum Nyquist* is displayed in Figure 1. The bathymetry data collected were between -0.99 m to -8.80 m ODN (Ordnance Datum Newlyn). A 100 m exclusion zone was set around the Sizewell B outfall infrastructure by the Sizewell Harbour Master and accordingly there is a small gap in the data coverage.

The full coverage required for the CDO head extent was achieved (Figure 2).

Within the CDO monitoring extents, water depth ranged between -4.37 m and -6.84 m ODN and the bathymetry reduces steadily in an eastern direction with depth contours running in a north to south direction. There are no features of note within the CDO monitoring extent.

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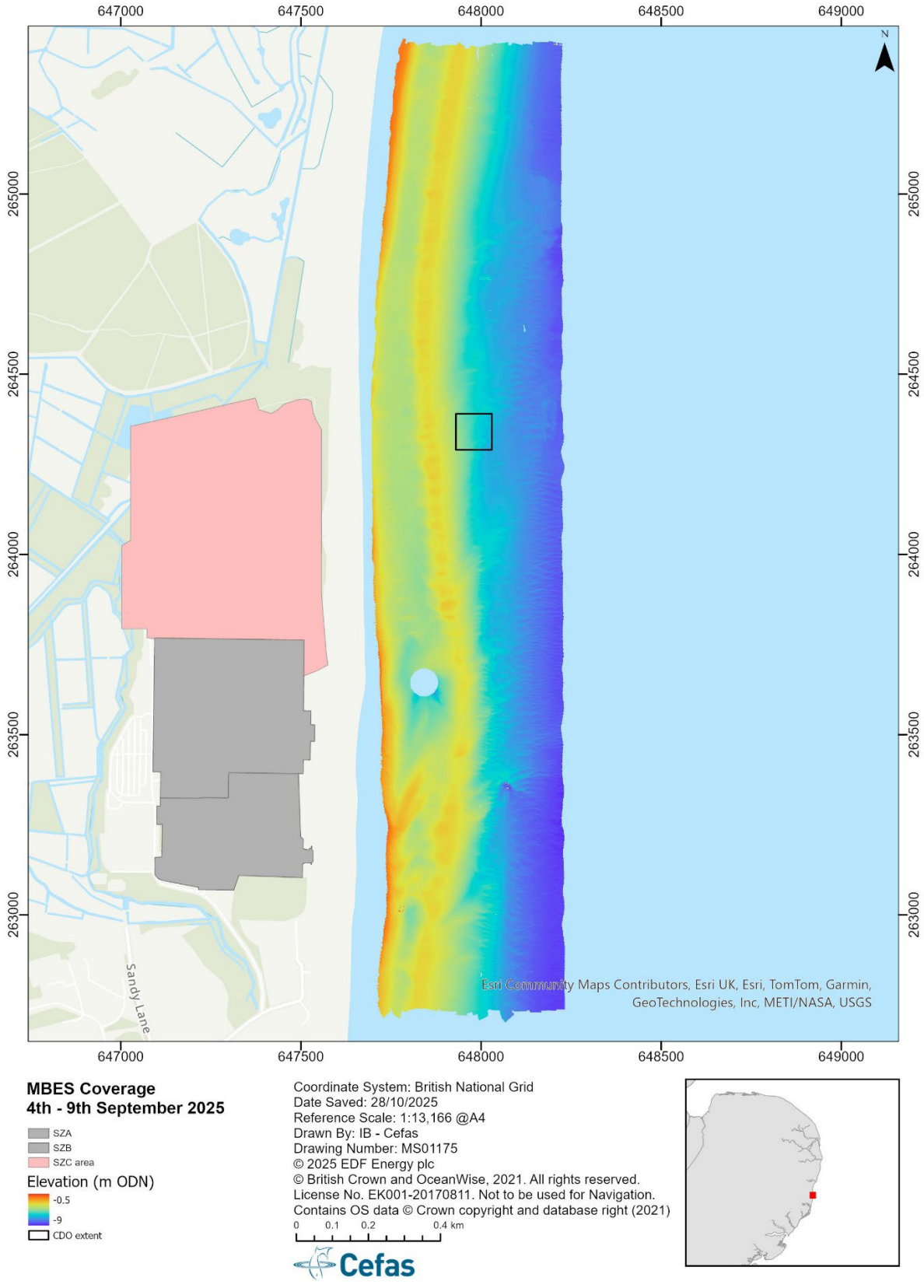

Figure 1: Wider bathymetry extent for the survey of 4th - 9th September 2025.

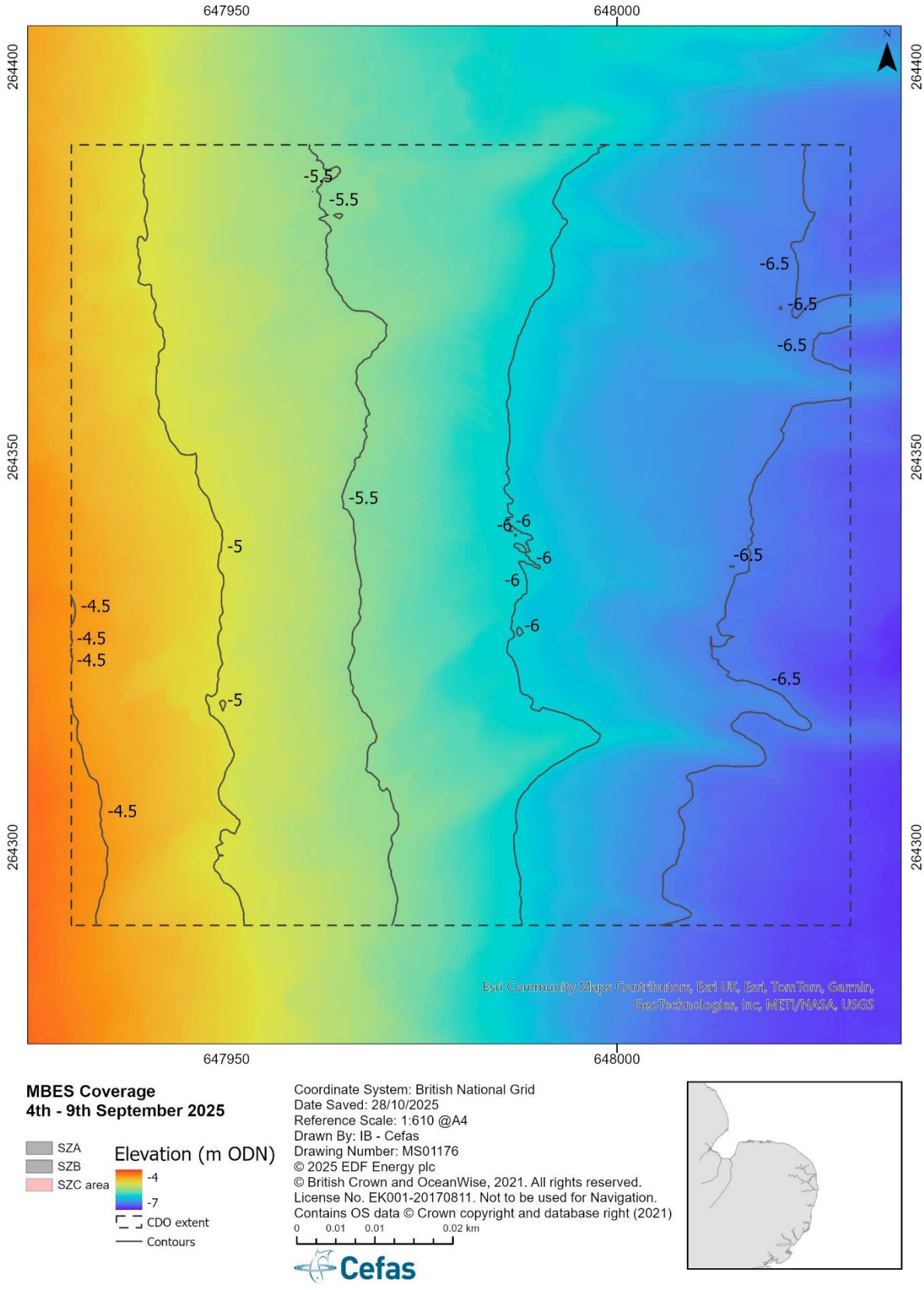

Figure 2: Bathymetry for the CDO extent with contours increments of 0.5 m elevation.

4 Further actions

The data are suitable for use as a pre-installation survey for the CDO installation.

There were no anomalies within the bathymetric data and therefore no further action is required.

References

BEEMS Monitoring Report MSZ0001. Sizewell C Coastal Processes Monitoring and Mitigation Plan. Cefas, Lowestoft.

BEEMS Monitoring Report MSZ0050. Sizewell C Coastal Processes Monitoring and Mitigation Plan (Annexe 50): Monitoring Extents, Schedule and Change Register. Revision 4.02. Cefas, Lowestoft.