

## 34 IN-COMBINATION EFFECTS

1. FSR ES Volume II *Development in the Haven: In-combination Effects - Part III* assesses the potential in-combination effects predicted to arise as a result of the offshore disposal associated with the proposed Felixstowe South Reconfiguration and Bathside Bay development. The potential environmental impacts of the latter were identified and assessed in Posford Haskoning (2003a; Supporting Document 1).

2. The report assumes a 'worst case' scenario where the reconfiguration of Felixstowe South and the development of Bathside Bay are undertaken simultaneously, although this is unlikely to occur. Unless otherwise indicated, the assessment of in-combination effects is undertaken based on the predicted *mitigated* impacts of the proposed developments.

3. Table 34.1.1 summarises the predicted effects of reconfiguring Felixstowe South, in-combination with the development of Bathside Bay, on all relevant features of the biological, physical and human environment.

**Table 34.1.1 Summary of predicted in-combination effects associated with offshore disposal for the development of Bathside Bay and reconfiguration of Felixstowe South**

Parameter / Predicted effect <sup>1 2</sup>	Bathside Bay	Felixstowe South	Nature of interaction	In-combination
<b>DISPOSAL</b>				
<b>Hydrodynamics and sediment transport</b>	NEGLIGIBLE	NEGLIGIBLE	CUMULATIVE	NEGLIGIBLE
<b>Potential smothering</b>	MINOR TO MODERATE	MODERATE ADVERSE	ADDITIVE	MODERATE ADVERSE
<b>Changes in sedimentation</b>	NEGLIGIBLE	NEGLIGIBLE	ADDITIVE	NEGLIGIBLE
<b>Disposal of capital silts</b>	NEGLIGIBLE	NEGLIGIBLE	NONE	NONE <sup>3</sup>
<b>Dispersion of sand</b>	NO EFFECT	NEGLIGIBLE	NONE	NONE
<b>Dispersion of fines</b>	NEGLIGIBLE	NEGLIGIBLE	ADDITIVE	NONE
<b>Maintenance dredging</b>	NEGLIGIBLE	NO EFFECT	ADDITIVE	NONE
<b>Marine construction traffic</b>	MINOR ADVERSE	MINOR ADVERSE	ADDITIVE	MINOR ADVERSE
<b>Interference with fishing</b>	NEGLIGIBLE	NEGLIGIBLE	ADDITIVE	NEGLIGIBLE
<b>Migration of clay balls</b>	NEGLIGIBLE	NEGLIGIBLE TO MINOR	ADDITIVE	MINOR ADVERSE
<b>Reduction in fishing grounds</b>	NEGLIGIBLE	NEGLIGIBLE	ADDITIVE	NEGLIGIBLE
<b>Effect on mineral resources</b>	NO EFFECT	NO EFFECT	ADDITIVE	NONE

<sup>1</sup> Where no combined impact is predicted, the effect is not reported

<sup>2</sup> Inclusive of mitigation, but assumes that the construction phases coincide (i.e. worst case)

<sup>3</sup> Dependant on the outcome of Trinity III Terminal Extension post-disposal monitoring results