

S4 Table. Physical constraints for all offshore technologies. Details of constraint types, associated buffer distances and data sources.

Constraint	Technology type	Buffer (km)	Source ^c
Active Cables ^a	All	0.5	KIS
Pipelines ^a	All	0.5	TCE; UK DEAL
Anchorage Areas ^a	All	None	SeaZone
Disposal sites ^a	All	None	CEFAS
Dredging Applications and licences ^a	All	None	TCE
Gas Storage Leases ^a	All	None	TCE
Offshore helicopter platform safety zones ^a	All	5.6 ^b	TCE
International Maritime Organisation shipping routes	All	None	Anatec
Meteorological Equipment ^a	All	0.5	TCE; UK Hydrographic Office
Munitions dumps	All	None	Royal Haskoning
Munitions disposal sites	All	None	MMO
Oil and Gas (O&G) Infrastructure ^a	All	0.5	UK DEAL
O&G Safety zones ^a	All	None	UK DEAL
O&G Wells	All	0.5	UK DEAL
Obstructions to navigation	All	0.1	SeaZone
Offshore shipping zones	All	None	SeaZone
Offshore Mines ^a	All	None	TCE
Protected and designated wrecks	All	None	MCA; TCE
World Heritage sites	All	None	Cadw; CMRC; EH
Civil airports/airfields	Fixed and floating wind	5	AAA
Military airports/airfields	Fixed and floating wind	5	CAA
Met office radar	Fixed and floating wind	5	MoD
^a Does not account for decommissioning between now and 2050 ^b Equivalent to 3 nautical miles ^c Abbreviations: CAA – Civil Aviation Authority; Cadw – Welsh Government’s historic environment service; CEFAS – Centre for Environment, Fisheries and Aquaculture Science; CMRC – Coastal and Marine Resources Centre; EH – English Heritage; KIS – Kingfisher Information Service; MCA – Maritime and Coastguard Agency; MMO – Marine Management Organisation; MoD – Ministry of Defence; TCE – The Crown Estate; UK DEAL – now UK Oil and Gas Data.			