## 38. Carbon sequestration

## Sensitivity Assessment

Experts were consulted when compiling this sensitivity analysis for carbon sequestration. Insufficient evidence is available on the recovery of sequestered carbon in the context of the Celtic Sea upon the cessation of some pressures and therefore the resilience has been assigned as 'No Evidence'.

**Table A11.38. Sensitivity assessment for carbon sequestration.** Associated sectors include activities related to offshore renewable energy (O), Fishing (F), or shipping (S). NR = not relevant, NA = not assessed, NEv = no evidence, H = high, M = medium, L = low, NS = not sensitive.

Pressures		Associated	Resistance				Resilience	9			Sensitivity			
Classification	Pressure type	sector(s)	Score	QoE	AoE	DoC	Score	QoE	AoE	DoC	Score	QoE	AoE	DoC
Physical	Physical loss (to land or freshwater habitat)	О	N	L	L	NR	VL	L	L	NR	Н	L	L	NR
	Physical change (to another seabed type)	O, F	N	L	L	NR	L	L	L	NR	Н	L	L	NR
	Physical change (to another sediment type)	O, F	N	L	L	NR	L	L	L	NR	н	L	L	NR

Pressures		Associated	Resistance				Resilience	)			Sensitivity			
Classification	Pressure type	sector(s)	Score	QoE	AoE	DoC	Score	QoE	AoE	DoC	Score	QoE	AoE	DoC
	Habitat structure change-removal of substratum (extraction)	0	N	L	L	NR	L	L	L	NR	Н	L	L	NR
	Abrasion/disturbance of substratum surface or seabed	O, F	N	L	L	NR	L	L	L	NR	Н	L	L	NR
	Penetration or disturbance of substratum subsurface	O, F	N	L	L	NR	L	L	L	NR	Н	L	L	NR
Physical	Changes in suspended solids (water clarity)	O, F	М	L	L	NR	М	L	L	NR	М	L	L	NR
	Smothering and siltation changes (light)	0	М	L	L	NR	М	L	L	NR	М	L	L	NR

Pressures		Associated	Resistance				Resilience	9			Sensitivity			
Classification	Pressure type	sector(s)	Score	QoE	AoE	DoC	Score	QoE	AoE	DoC	Score	QoE	AoE	DoC
	Smothering and siltation changes (heavy)	0	M	L	L	NR	M	L	L	NR	М	L	L	NR
	Underwater noise	O, F, S	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
	Electromagnetic energy	0	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
	Barrier to species movement	O, F	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
	Death or injury by collision	O, F, S	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
Hydrological	Water flow changes	0	М	L	L	NR	М	L	L	NR	М	L	L	NR
Chemical	Transition elements & organo-metal contamination	O, F, S	М	L	L	NR	NEv	L	L	NR	Sensitive	L	L	NR

Pressures		Associated	Resistance				Resilience				Sensitivity			
Classification	Pressure type	sector(s)	Score	QoE	AoE	DoC	Score	QoE	AoE	DoC	Score	QoE	AoE	DoC
	Hydrocarbon & PAH contamination	O, F, S	М	L	L	NR	NEv	L	L	NR	Sensitive	L	L	NR
	Synthetic compound contamination	O, F, S	М	L	L	NR	NEv	L	L	NR	Sensitive	L	L	NR
	Introduction of other substances	O, F, S	М	L	L	NR	NEv	L	L	NR	Sensitive	L	L	NR
	Deoxygenation	0	М	L	L	NR	NEv	L	L	NR	Sensitive	L	L	NR
Biological	Introduction or spread of invasive non-indigenous species	O, F, S	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
	Removal of target species	F	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
	Removal of non-target species	F	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR