Appendix 3. Sensitivity assessment

Results of sensitivity analysis: impact of a change in one parameter (value 0% and 80% for parameters with a positive effect and 200% and 120% for parameters with a negative effect on the benefits of the project) on the average cumulated net benefits of the project after 200 years (in million €). These values are compared with the NPV result per scenario from figure 5 and 6 in this paper (given in the table below). Effects of more than 10% are indicated in bold and more than 30% are in bold and underlined. Biophysical parameters are indicated with (Q) and monetary parameters with (€). ES 'crops', 'houses' and 'buildings' are not included since it is part of the investment cost of the project (expropriation cost) and not of the benefits of the project (not applicable: n.a.).

ES	Pos/neg relation	Average cumulated net benefit after 200 years (in million €)															
		Parameter value 0% (200% for parameters with negative impact)								Parameter value 80% (120% for parameters with negative impact)							
		S1.1	S1.2	S1.3	S1.4	S1.5	S2.1	S2.2	S2.3	S1.1	S1.2	S1.3	S1.4	S1.5	S2.1	S2.2	S2.3
NPV result (Fig. 5 and Fig. 6)		196	247	409	359	298	350	370	398	196	247	409	359	298	350	370	398
Crops	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Grazing livestock (€)	Pos	**174**	246	409	359	298	349	371	398	192	247	409	359	298	350	371	398
Saline agri. (Q, €)	Pos	196	247	409	359	298	350	370	398	196	247	409	359	298	351	371	398
Flood (€)	Pos	**110**	**161**	**323**	**273**	**212**	**265**	**285**	**312**	179	230	392	342	281	333	354	381
Sediment storage (Q) incl. N and C burial	Pos	**155**	**134**	**183**	**249**	**263**	**143**	**144**	**151**	188	224	**364**	337	291	**309**	**325**	**349**
Sediment storage (€)	Pos	191	232	379	346	294	323	340	365	195	244	403	356	297	345	365	391
Carbon burial (Q)	Pos	194	244	405	355	296	343	363	390	196	246	408	358	297	349	369	396
GHG: CO2 (Q)	Neg	183	234	396	345	285	337	357	385	194	244	407	356	295	348	368	395
GHG: N2O (Q)	Neg	195	246	408	358	297	349	369	397	196	247	409	359	298	350	370	398
GHG: CH4 (Q)	Neg	**145**	**196**	**358**	**308**	**247**	**300**	**320**	**347**	186	237	399	349	288	340	360	388
CO_2-eq. value (€)	Neg	**143**	**194**	**357**	**306**	**244**	**302**	**322**	**350**	186	236	399	348	287	341	361	388
Nitrogen burial (Q)	Pos	**151**	**140**	**206**	**253**	**257**	**163**	**167**	**177**	187	226	369	338	290	313	330	354
Denitrification (Q)	Pos	**137**	**188**	**301**	**184**	**109**	**245**	**262**	**283**	185	235	388	324	**260**	330	349	375
Nitrogen value (€)	Pos	**91**	**80**	**97**	**78**	**68**	**57**	**58**	**62**	**175**	**214**	**347**	**303**	**252**	**292**	**308**	**331**
Phosphorous burial (Q, €)	Pos	**157**	**208**	370	**320**	**259**	**312**	**332**	359	189	239	402	351	290	343	363	390
Recreation (Q, €)	Pos	194	245	407	357	296	348	369	396	196	247	409	358	297	350	370	397
Excursion (Q, €)	Pos	196	246	409	358	297	350	370	397	196	247	409	359	298	350	371	398
Open view (Q, €)	Neg	196	247	409	359	298	351	371	398	196	247	409	359	298	351	371	398
Houses	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Other buildings	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.