Table S1: Calculation of the scores for the HBDs and nature protection approach based o normalized model results and supplemented by expert judgement for the different species of reptiles, amphibians, fish and waterbirds. refer.: historic reference state, status quo: current status (2014), S0: business as usual scenario (2050), S3: scenario controlled water supply (3 m^3s^{-1}), S20-80: scenario partial re-connection with the Danube (20-80 $m^3 s^{-1}$). Cons state: Conservation status according to the standard data forms of the respective Natura 2000 sites (A excellent, B good, C average or reduced) or the Vienna Nature Conservation Act and Lower Austrian Nature Conservation Act, respectively (I excellent, II good, III not satisfying), weights: weight given according to the protection state, protection state of the respective species provided by the HBDs (value 4 for all species listed in Annex I or II of the HBDs) and the nature protection law effective in this region (Vienna Nature Conservation Ordinance and Lower Austrian Species Protection Ordinance, value 3, 2 and 1 for priority species, strictly protected, and protected species, respectively). For calculations please see main text.

	model result (normalized)					assessment for FFH site								weighted scores					
						Vienna			Lower Austria					Vienna			Lower Austria		
	refer.	status quo	S0	S3	S20-80	Cons state	S0	S3	S20-80	Cons state	S0	S3	S20-80	weight	S0	S3	S20-80	S0	S3	S20-80
ALL															**41**	**19**	**17**	**21**	**21**	**20**
Reptiles															**5**	**1**	**1**	**2**	**2**	**2**
Emys orbicularis	*0.09*	*0.41*	*0.35*	*0.57*	*0.62*	C	5	1	1	II	2	2	2	4	5	1	1	2	2	2
Amphibians															**5**	**2.0**	**2.25**	**2.42**	**2.42**	**2.42**
Bombina bombina	*0.28*	*0.73*	*0.45*	*0.36*	*0.25*	B	5	2	2	II	2	2	2	4	20	8	8	8	8	8
Bufo bufo						II	5	1	2	II	2	2	2	2	10	2	4	4	4	4
Hyla arborea	*0.02*	*0.36*	*0.24*	*0.65*	*0.63*	II	5	1	1	II	2	2	2	3	15	3	3	6	6	6
Lissotriton vulgaris						II	5	1	1	II	2	2	2	2	10	2	2	4	4	4
Pelobates fuscus	*0.16*	*0.12*	*0.08*	*0.82*	*0.54*	III	5	3	3	III	4	4	4	3	15	9	9	12	12	12
Pelophylax spp.						II	5	1	2	II	2	2	2	2	10	2	4	4	4	4
Rana arvalis	*0.62*	*0.44*	*0.34*	*0.12*	*0.54*	III	5	4	4	III	4	4	4	2	10	8	8	8	8	8
Rana dalmatina						II	5	1	2	II	2	2	2	2	10	2	4	4	4	4
Triturus dobrogicus	*0.01*	*0.35*	*0.26*	*0.54*	*0.72*	C	5	3	3	B	2	2	2	4	20	12	12	8	8	8
Fish															**2.8**	**2.5**	**1.8**	**2.8**	**2.8**	**2.2**
rheophilic A																				
Barbus barbus						III	4	3	1					2	8	6	2			
Chondrostoma nasus	*0.91*	*0.05*	*0.04*	*0.16*	*0.37*															
Gymnocephalus schraetzer						B	2	2	1	C	4	4	3	4	8	8	4	16	16	12

Romanogobio vladykovi	*0.95*	*0.03*	*0.02*	*0.14*	*0.29*	B	2	2	1	C	4	4	3	4	8	8	4	16	16	12
Rutilus pigus virgo						B	2	2	1	C	4	4	3	4	8	8	4	16	16	12
Zingel streber						B	2	2	2	B	2	2	2	4	8	8	8	8	8	8
Zingel zingel						B	2	2	1	C	4	4	3	4	8	8	4	16	16	12
rheophilic B																				
Aspius aspius	0.88	0.09	0.07	0.28	0.38	C	4	3	1	B	2	2	1	4	16	12	4	8	8	4
Cobitis taenia						III	4	**4**	3	C	4	4	3	2	8	8	6	8	8	6
Silurus glanis	*0.91*	*0.18*	*0.16*	*0.22*	*0.24*	III	4	4	4					1	4	4	4			
stagnophilic																				
Misgurnus fossilis	*0.18*	*0.47*	*0.80*	*0.32*	*0.09*	C	3	**3**	**4**	A	2	2	2	4	12	12	16	8	8	8
Rhodeus sericeus amarus	*0.64*	*0.34*	*0.29*	*0.42*	*0.47*	C	4	3	**3**	B	2	2	2	4	16	12	12	8	8	8
Water bird															**2.6**	**2.3**	**1.9**	**1.2**	**1.2**	**1.2**
siltation zones. makrophyte rich																				
Acrocephalus arundinaceus						III	4	3	4	II	2	2	2	4	16	12	16	8	8	8
Acrocephalus scirpaceus	*0.00*	*0.69*	*0.51*	*0.51*	*0.02*	III	4	3	4	B	2	2	2	4	16	12	16	8	8	8
Circus aeruginosus						II	2	1	1	B	2	2	2	2	4	2	2	4	4	4
Emberiza schoeniclus	*0.33*	*0.64*	*0.69*	*0.03*	*0.01*					B	2	2	2							
Ixobrychus minutus						B	2	2	5	B	2	2	2	4	8	8	20	8	8	8
Rallus aquaticus										II	2	2	2							
Tachybaptus ruficollis	*0.07*	*0.54*	*0.84*	*0.07*	*0.03*	B	2	2	2					4	8	8	8			
large permanent wb																				
Anas crecca						B	2	2	1	B	2	2	2	4	8	8	4	8	8	8
Anas querquedula						II	2	2	1					2	4	4	2			
Ardea cinera										B	2	2	2							
Ardea alba						B	2	1	1	A	2	2	2	4	8	4	4	8	8	8
Aythya ferina						B	2	2	1					4	8	8	4			
Aythya fuligula						B	2	2	1					4	8	8	4			
Mergellus albellus						B	2	1	1	B	2	2	2	4	8	4	4	8	8	8
Milvus migrans						B	2	2	1	B	2	2	2	4	8	8	4	8	8	8
Podiceps cristatus						B	2	2	1					4	8	8	4			
dynamic wb																				

Alcedo atthis	*0.78*	*0.11*	*0.09*	*0.24*	*0.56*	C	4	4	1	A	2	2	2	4	16	16	4	8	8	8
Actitis hypoleucos. *Charadrius dubius*	0.90	0.08	0.08	0.19	0.38	C	4	4	3	B	2	2	2	4	16	16	12			