

Table S1. Seasonal distribution of genus and species of diatoms in Danjiangkou Reservoir.

Number	Genus	Species	spring	summer	autumn	winter
1	g__Acanthoceras	s__Acanthoceras_sp._6vii09-1A	+	+	+	+
2	g__Achnantheidium	s__Achnantheidium_catenatum	+	+		
		s__Achnantheidium_pyrenaicum	+	+		
		s__Achnantheidium_daonense	+			
3	g__Actinocyclus_f__Hemidiscaceae	s__Actinocyclus_actinochilus	+		+	
4	g__Amphora	s__Amphora_coffeiformis		+	+	
5	g__Asterionella	s__Asterionella_formosa	+	+	+	
6	g__Aulacoseira	s__Aulacoseira_granulata	+	+	+	+
		s__Aulacoseira_subarctica				+
7	g__Caloneis	s__Caloneis_fontinalis			+	
		s__Caloneis_amphisbaena			+	
8	g__Chaetoceros	s__Chaetoceros_tenuissimus			+	
9	g__Cocconeis	s__Cocconeis_placentula	+	+		+
		s__Cocconeis_pediculus	+			+
10	g__Conticribra	s__Conticribra_weissflogiopsis			+	
11	g__Craticula	s__Craticula_cf._cuspidata_KEL-2015	+			
		s__Craticula_accomoda		+	+	
12	g__Cyclotella	s__Cyclotella_meneghiniana	+	+		+
		s__Cyclotella_cf._ocellata	+			
		s__Cyclotella_cryptica	+			
13	g__Cylindrotheca	s__Cylindrotheca_gracilis	+			
		s__Cylindrotheca_closterium			+	
14	g__Cymatopleura	s__Cymatopleura_solea			+	
15	g__Cymbella	s__Cymbella_affinis	+	+		
		s__Cymbella_heterogibbosa	+	+	+	
16	g__Cymbopleura	s__Cymbopleura_naviculiformis				+
17	g__Diploneis	s__Diploneis_sp.	+			+
18	g__Discostella	s__Discostella_woltereckii	+	+	+	+
		s__Discostella_nipponica	+	+	+	+
		s__Discostella_sp._HYK0210-A2		+		
19	g__Encyonema	s__Encyonema_silesacum		+		+
20	g__Encyonopsis	s__Encyonopsis_sp._TN-2014	+	+	+	
21	g__Entomoneis	s__Entomoneis_paludosa	+			
22	g__Epithemia	s__Epithemia_contorta		+	+	
23	g__Fistulifera	s__Fistulifera_saprophila		+		
24	g__Fragilaria	s__Fragilaria_nanana	+		+	
		s__Fragilaria_bidens	+		+	+
		s__Fragilaria_famelica	+			
		s__Fragilaria_sp._AT-124.05b	+			
		s__Fragilaria_crotonensis		+		+
		s__Fragilaria_perminuta			+	

25	g__Fragilariopsis					
		s__Fragilariopsis_cylindrus	+			
26	g__Gomphonema					
		s__Gomphonema_angustum	+	+		+
		s__Gomphonema_parvulum	+	+	+	
27	g__Grammatophora					
		s__Grammatophora_sp._B_LG-2014				+
28	g__Gyrosigma					
		s__Gyrosigma_limosum		+	+	
29	g__Halamphora					
		s__Halamphora_catenulafalsa	+			
		s__Halamphora_montana		+	+	
30	g__Hantzschia					
		s__Hantzschia_sp._LFS-2014		+		
		s__Hantzschia_amphioxys				+
31	g__Licmophora					
		s__Licmophora_flabellata			+	
32	g__Melosira					
		s__Melosira_varians	+	+	+	+
33	g__Navicula					
		s__Navicula_sp.	+	+	+	
		s__Navicula_cari	+			
		s__Navicula_cincta		+	+	
		s__Navicula_sp._AT-201Gel01	+	+	+	
		s__Navicula_cryptocephala			+	+
34	g__Nitzschia_f__Bacillariaceae					
		s__Nitzschia_linearis	+			
		s__Nitzschia_cf._pusilla	+		+	
		s__Nitzschia_supralitorea	+	+	+	
		s__Nitzschia_dubiiiformis	+			
		s__Nitzschia_palea	+	+	+	
		s__Nitzschia_draveillensis	+			
		s__Nitzschia_amphibia		+		
		s__Nitzschia_acidoclinata		+		
		s__Nitzschia_bizertensis			+	
		s__Nitzschia_pusilla			+	
		s__Nitzschia_dissipata			+	
35	g__Nupela					
		s__Nupela_sp._NA-2016a	+			
36	g__Pauliella					
		s__Pauliella_taeiniata	+			
37	g__Pinnularia					
		s__Pinnularia_sp._NE-L29	+			
		s__Pinnularia_sp._NE-L26		+		
38	g__Pleurosigma					
		s__Pleurosigma_intermedium			+	
39	g__Prestauroneis					
		s__Prestauroneis_integra	+	+	+	
40	g__Pseudo-nitzschia					
		s__Pseudo-nitzschia_fraudulenta			+	
41	g__Sellaphora					
		s__Sellaphora_seminulum			+	
		s__Sellaphora_pupula				+
42	g__Skeletonema					
		s__Skeletonema_grevillei	+			
		s__Skeletonema_potamos	+		+	
		s__Skeletonema_costatum	+		+	+
43	g__Stephanodiscus					
		s__Stephanodiscus_cf._akanensis	+		+	
		s__Stephanodiscus_suzukii				+
44	g__Surirella					
		s__Surirella_sp.	+	+		
		s__Surirella_angusta			+	
		s__Surirella_biseriata			+	+
		s__Surirella_sp._heteropolar				+
45	g__Synedra					
		s__Synedra_ulna		+	+	
46	g__Tabularia					
		s__Tabularia_fasciculata				+

47	g__Thalassiosira	s__Thalassiosira_weissflogii	+			
		s__Thalassiosira_gessneri			+	
48	g__unclassified_c__Bacillariophyceae	s__uncultured_Bacillariophyceae	+	+	+	+
		s__Bacillariophyceae_sp._YS-2016a			+	
49	g__unclassified_c__Mediophyceae	s__uncultured_Mediophyceae			+	+
50	g__unclassified_p__Bacillariophyta	s__uncultured_diatom	+	+	+	+
		s__Peridiniopsis_jiulongensis_diatom	+		+	+
		_endosymbiont				
51	g__Urosolenia	s__Urosolenia_eriensis	+	+		
