

Supporting Materials

Table S1. The classification standards for lake water quality and water function in China (GB3838-2002).

Water quality classification	Water function	DO (mg/L) (≥)	TN (mg/L) (≤)	NH ₄ ⁺ -N (mg/L) (≤)	TP (mg/L) (≤)	COD (mg/L) (≤)	COD _{Mn} (mg/L) (≤)
Class I	Applicable to water sources and state reserves	7.5	0.2	0.15	0.01	15	2
Class II	Applicable to centralized sources of drinking water, hydrobiological habitats, etc.	6	0.5	0.5	0.025	15	4
Class III	Applicable to centralized sources of drinking water, aquaculture, etc.	5	1.0	1.0	0.05	20	6
Class IV	Applicable to industrial and recreational water	3	1.5	1.5	0.1	30	10
Class V	Applicable to agricultural and landscape water	2	2.0	2.0	0.2	40	15