

1 **Supplementary Table S3** Water quality characteristics of 30 sampling sites

Site No	WTN (mg L ⁻¹)	WNH ₄ ⁺ -N (mg L ⁻¹)	WNO ₃ ⁻ -N (mg L ⁻¹)	WTC (mg L ⁻¹)	WTOC (mg L ⁻¹)
1	3.5	0.3	1.5	15.6	15
2	10.6	0.3	3.3	37.3	35.6
3	1.9	0.3	ND	52.7	50.7
4	9.3	0.4	2.2	43.7	41.8
5	3.9	0.7	1.4	33.3	31.7
6	9.3	0.4	9.9	26.9	25.9
7	1.6	0.3	1.4	45.4	43.3
8	8.2	0.3	1.6	48.9	46.6
9	4.7	0.3	3.4	24.9	23.7
10	7.6	0.5	6.2	62.1	59.4
11	4.6	0.3	1.0	40.3	38.5
12	2.0	0.2	ND	46.2	43.8
13	2.3	0.6	0.1	35.6	24.8
14	2.5	0.4	0.5	36.8	17.9
15	2.8	0.5	ND	32.1	30.3
16	6.4	0.4	0.9	36.7	28.4
17	3.4	0.3	0.2	55.5	52.6
18	2.2	0.2	0.1	29.6	23.9
19	2.1	0.6	0.6	20.7	19.7
20	2.0	0.7	2.4	26.4	18.4
21	2.0	1.2	0.6	16.9	15.3
22	2.0	0.2	0.4	18.6	12.5
23	1.9	0.4	0.6	23.9	22.2
24	2.5	ND	1.5	23.1	12.7
25	2.7	0.5	4.6	15.3	14.2
26	1.4	0.3	0.5	18.4	9.5
27	2.8	0.1	2.7	16.9	8.5
28	2.4	0.3	1.3	28.8	21.0
29	4.0	0.1	2.7	11.4	8.8
30	3.7	0.2	2.2	11.2	8.6
Mean ± SE	3.9 ± 0.5	0.4 ± 0.1	2.0 ± 0.4	31.2 ± 2.5	26.8 ± 2.7

3 Note: ND indicates not detected or below the limit.