

Supplementary Materials

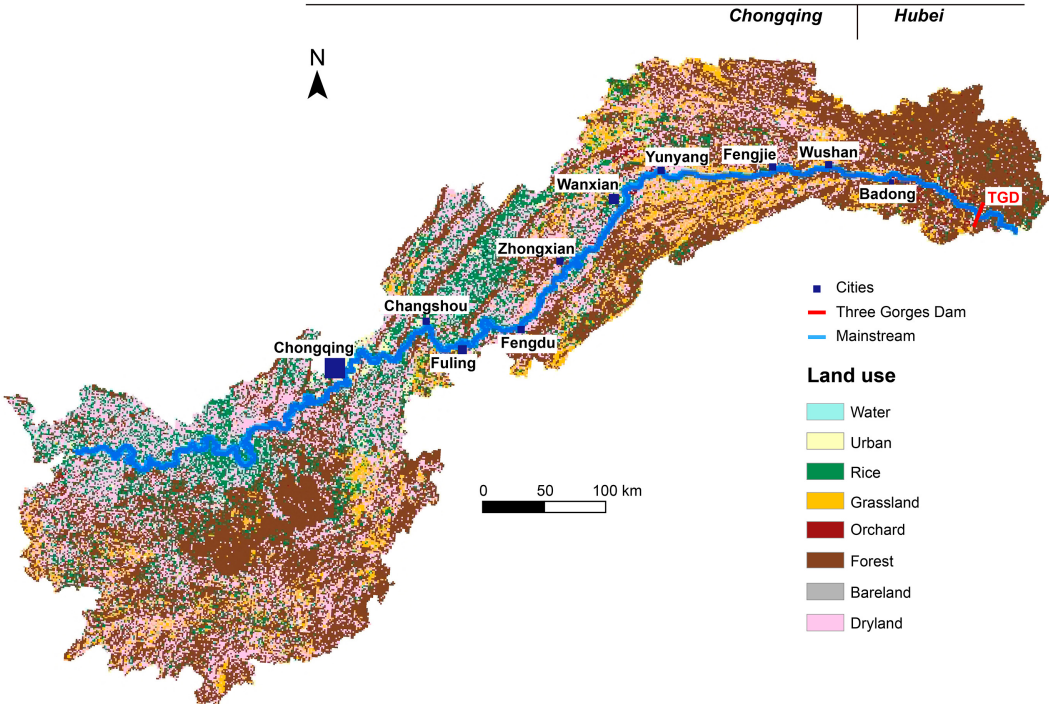


Figure S1. Land use in the Three Gorges Reservoir.

Table S1 Location of the sampling sites and the measured environmental variables.

No.	Latitude (N)	Longitude (E)	Distance (km)‡	Turb (NTU)	DO (mg/L)	<i>H</i> (m)	<i>D</i> ₅₀ (mm)	Clay	Silt	Sand	TOC (%)	TN (mg/kg)	TP (mg/kg)	PAHs (ng/g)	PAEs (ng/g)
Mainstream															
S1	30.8328°	111.0030°	0.82	14.75	6.13	70	0.0049	43.76%	53.70%	2.54%	-	936.90	-	974.3	896.0
S2	30.8364°	110.9949°	1.26	15.32	7.35	90	0.0047	45.42%	52.63%	1.94%	2.24	912.71	925.94	901.8	1483.7
S3	30.8468°	110.9936°	2.67	12.72	6.71	33	0.0049	43.69%	53.77%	2.54%	1.98	987.12	801.23	844.4	2225.7
S4	30.8776°	110.9376°	9.12	8.47	6.16	46	0.0043	44.02%	52.86%	3.12%	1.97	901.20	916.88	1070.3	671.6
S5	30.9600°	110.7593°	30.36	7.91	6.51	115	0.0108	30.72%	68.33%	0.95%	1.43	910.95	652.50	763.1	1670.9
S6	30.9654°	110.7458°	31.63	6.23	6.44	80	0.0050	46.28%	51.52%	2.20%	-	956.01	-	874.5	3161.8
S7	31.0004°	110.6863°	39.29	6.9	6.72	38	0.0076	39.35%	59.74%	0.91%	-	937.69	-	1040.7	1281.2
S8	31.0002°	110.6411°	43.15	8.71	6.54	97	0.0041	49.31%	47.59%	3.09%	-	922.43	-	1211.7	1431.2
S9	31.0350°	110.5115°	56.70	6.49	6.28	44	0.0044	47.14%	49.65%	3.20%	-	997.20	-	600.8	756.9
S10-BD*	31.0388°	110.3082°	77.39	8.13	6.73	48	0.0057	57.01%	40.42%	2.57%	1.24	907.08	531.46	1218.3	2499.3
S11	31.0282°	110.0988°	99.91	8.86	7.08	32	0.0059	41.97%	56.28%	1.75%	1.79	905.18	946.45	1398.6	279.2
S12-WS	31.0704°	109.8770°	124.15	4.84	7.81	40	0.0065	38.65%	54.45%	6.90%	2.09	974.27	993.24	950.8	4744.4
S13	31.0082°	109.7198°	140.65	9.22	6.67	28	0.0045	46.88%	48.73%	4.39%	-	-	-	-	-
S14-FJ	31.0384°	109.5079°	162.96	9.87	6.78	46	0.0086	41.33%	56.91%	1.76%	2.05	965.85	680.31	869.8	1190.0
S15	30.9719°	109.3540°	179.89	111.46	7.30	34	0.0053	43.96%	49.58%	6.46%	-	-	-	-	-
S16	30.9367°	108.9759°	218.30	15.25	7.03	49	0.0060	39.95%	58.97%	1.09%	-	-	-	-	-
S17	30.9565°	108.8891°	227.34	21.48	7.19	53	0.0101	34.72%	61.84%	3.44%	-	-	-	-	-
S18	30.9310°	108.6883°	249.38	16.7	6.93	28	0.0088	40.73%	57.80%	1.47%	-	917.65	-	666.5	2096.2
S19	30.9526°	108.6393°	253.92	26.26	7.01	41	0.0046	46.86%	52.24%	0.91%	-	-	-	-	-
S20-WX	30.8216°	108.3905°	285.54	27.57	7.31	44	0.0115	37.21%	55.72%	7.07%	1.22	935.69	875.81	688.1	1787.0
S21	30.6185°	108.3235°	312.13	26.22	7.56	42	0.0140	28.15%	69.95%	1.91%	-	-	-	-	-
S22	30.3451°	108.0861°	354.00	41.36	7.81	32	0.0071	41.20%	51.95%	6.85%	-	954.21	-	368.3	227.0

S23	30.3305°	108.1072°	358.75	31.34	7.86	13	0.0077	37.38%	60.84%	1.78%	-	-	-	-	-
S24-ZX	30.3004°	108.0456°	370.63	10.63	7.92	21	0.0087	38.32%	59.17%	2.51%	1.05	1009.60	1425.88	1179.0	2861.3
S25	30.2180°	107.9917°	382.76	22.34	7.96	17	0.0115	33.28%	60.13%	6.59%	1.32	989.96	1274.18	754.6	2500.2
S26	30.1331°	107.8977°	399.20	31.85	7.81	15	0.0123	35.19%	63.52%	1.29%	1.22	977.28	1000.77	884.5	1149.9
S27-FD	29.8746°	107.7232°	433.59	40.21	7.78	15	0.0085	37.43%	55.96%	6.61%	-	986.63	-	783.1	1677.6
S28	29.8899°	107.4721°	461.71	5.36	7.54	15	0.0111	35.90%	54.71%	9.39%	-	-	-	-	-
S29	29.7906°	107.4448°	478.04	59.5	7.89	5	0.0148	29.95%	59.16%	10.89%	-	959.80	-	854.4	1305.2
S30	29.7285°	107.4024°	486.48	83.83	7.45	14	0.0130	33.10%	50.31%	16.59%	1.46	936.76	774.18	841.3	275.2
S31-FL	29.7391°	107.3517°	492.92	50.69	7.49	29	0.0154	29.14%	58.05%	12.82%	-	-	-	-	-
S32	29.6784°	107.2005°	511.74	42.16	7.69	16	0.0133	30.47%	61.74%	7.79%	1.67	966.68	1604.83	1486.4	3116.8
S33	29.5850°	106.8325°	573.18	32.27	7.64	24	0.0173	30.89%	44.41%	24.71%	-	-	-	-	-
S34	29.5894°	106.6534°	597.92	43.31	7.60	17	0.0202	25.37%	54.97%	19.67%	-	-	-	-	-
Tribuaries															
XX [†]	30.9662°	110.7642°	18.06	8.01	6.83	76	0.0049	42.33%	56.94%	0.73%	1.67	923.63	1121.67	981.7	4608.0
QG	30.9859°	110.6287°	43.15	7.3	6.94	61	0.0049	44.59%	54.37%	1.04%	-	970.57	-	310.7	975.5
YD	31.0351°	110.3158°	56.70	6.93	6.55	21	0.0043	48.17%	49.68%	2.15%	-	931.55	-	1223.7	1561.8
DN	31.0799°	109.8958°	99.91	11.6	6.65	33	0.0064	32.80%	67.07%	0.13%	-	969.63	-	1261.3	2694.7
MX	31.0548°	109.5241°	140.65	7.76	6.91	29	0.0083	35.31%	60.69%	4.00%	-	984.15	-	902.9	1002.2
MDX	30.9319°	108.9412°	218.30	16.18	7.18	43	0.0050	44.44%	53.03%	2.53%	1.77	886.88	885.11	1618.2	177.3
XJ	30.9533°	108.6583°	253.92	6.17	8.68	42	0.0059	40.11%	54.73%	5.16%	-	933.37	-	1126.7	1466.4
QX	29.9016°	107.4896°	433.59	34.23	7.95	15	0.0119	31.51%	60.15%	8.33%	-	1020.72	-	1096.4	3609.8
WJ	29.7044°	107.4058°	486.48	28.43	8.71	14	0.0064	41.72%	52.03%	6.25%	-	984.61	-	202.0	314.3

^{*}Sites affected by the urban cities, i.e. BD - Badong; WS - Wushan; FJ - Fengjie; WX - Wanxian; ZX - Zhongxian; FD - Fengdu; FL - Fuling.

[†]Sites from the tributaries, i.e. XX - Xiangxi; QG - Qinggan; YD - Yandu; DN - Daning; MX - Meixi; MDX - Modaoxi; XJ - Xiaojiang; QX - Quxi; WJ - Wujiang.

[‡]Distance to the Three Gorges Dam.

Table S2 A more detailed comparison with the results of Xu et al. (1999) for the sites affected by urban cities.

	Cu		Zn		Cd		Pb		Cr		Ni	
	I*	II [†]	I	II	I	II	I	II	I	II	I	II
Fuling	50.3	52.68	123	124.38	0.38	0.76	23.9	47.10	128	79.35	38.5	32.45
Fengdu	92.4	44.46	165	123.61	0.37	0.75	20.4	44.83	102	78.00	43.6	31.35
Zhongxian	48.8	52.38	149	147.55	0.20	0.95	21.2	53.73	241	171.12	41.4	36.29
Wanxian	36.4	54.11	109	140.91	0.17	0.92	16.8	52.90	124	95.42	35.3	37.42
Fengjie	50.2	50.26	120	146.57	0.30	0.89	16.9	48.50	108	96.51	40.4	43.20
Wushan	44.3	66.37	148	198.59	0.15	1.15	27.3	64.76	274	121.31	37.5	55.89
Badong	50.8	80.05	116	176.25	0.16	1.29	8.50	61.59	97.9	131.14	36.7	54.99

* TGR-1985 (Xu et al. 1999);

[†] This study.