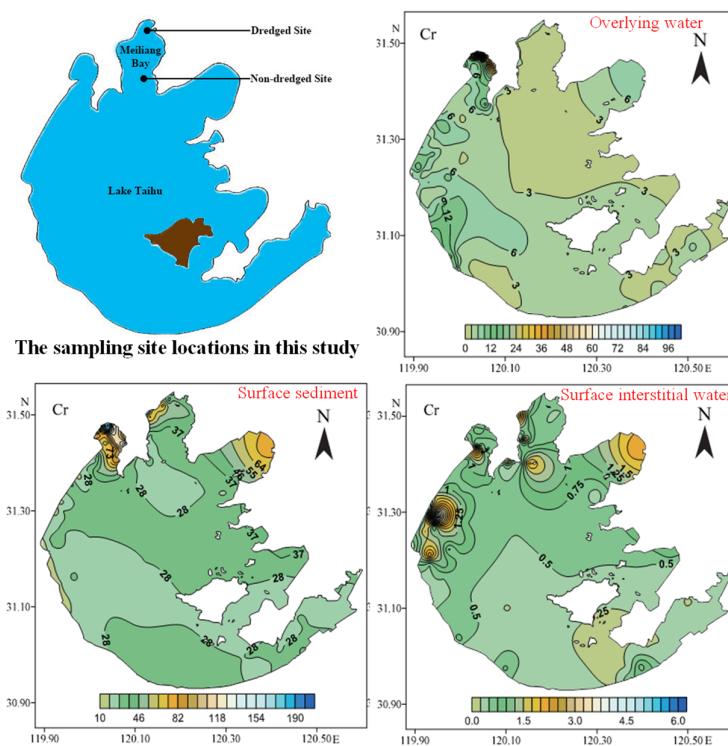


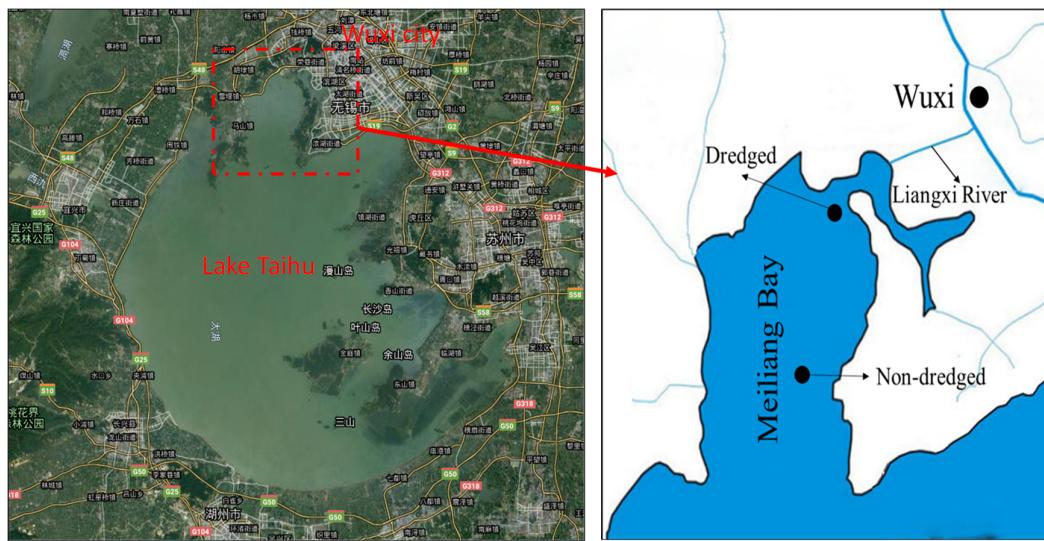
*Supplementary Materials*

# The Long-Term Effects of Dredging on Chromium Pollution in the Sediment of Meiliang Bay, Lake Taihu, China

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**Figure S1.** The sampling site locations and the Cr concentrations in overlying water and sediment in March 2010 (the Cr concentrations were referred to [1]).



**Figure S2.** Map for the Lake Taihu (left) and location of discharge pipes of Liangxi River, dredged sites and un-dredged sites (right).

**Table S1.** The physicochemical characteristics of overlying water and sediment before dredging in July 2010 [2]

Sediment	Chla (ug/kg)	TOC (g/kg)	TN (g/kg)	TP (g/kg)	LOI (%)	MC (%)
Non-dredge	504.57	13.908	1.39	1.33	7.05	54.57
Dredged	579.64	10.797	1.08	1.18	5.94	42.54
Overlying water	DO (mg/L)	Sample Depth (m)	pH	Conductivity (ms/cm)	NUT	Chl a (μg/L)
Non-dredged	7.87	1.45	8.62	0.61	34.8	8.97
Dredged	7.11	0.73	7.98	0.605	61.9	10.3

**Table S2.** The physicochemical characteristics of overlying water after dredging in 2016.

Site	Month	T(°C)	DO(mg/L)	EC (μs/cm)	Water Depth(m)	TP (mg/L)	PO <sub>4</sub> <sup>3-</sup> (mg/L)	TN (mg/L)	NH4+ (mg/L)	Chl-a (mg/L)
Non-dredge d	Spring	19.22	9.18	460	2.6	0.117	0.008	3.968	0.275	19.887
	Summer	28.86	6.44	320	3.2	0.097	0.003	1.656	0.001	69.527
	Autumn	22.06	13.36	405	2.3	0.414	0.037	4.388	0.150	174.794
	Winter	8.29	10.53	335	2.4	0.065	0.003	1.433	0.274	12.499
Dredged	Spring	18.90	9.24	450	2.8	0.071	0.008	1.680	0.202	10.529
	Summer	28.75	5.96	350	4.5	0.124	0.003	1.907	0.001	100.440
	Autumn	18.48	6.53	415	3	0.265	0.074	2.384	0.170	89.392
	Winter	8.35	10.88	340	3.1	0.071	0.004	0.998	0.406	17.856

**Table S3.** The characteristics of conditions on sample sites after dredging in 2016.

Site	Location	Date	Water Depth (m)	Sediment Depth of Cores(cm)
Non-dredged	31°26'18" N, 120°11'12" E	2016.04	2.6	15.4
		2016.07	3.2	13.4
		2016.10	2.3	16.5
		2017.01	2.4	16.9
		2016.04	2.8	14.2
Dredged	31°31'33" N, 120°12'33" E	2016.07	4.5	15.5
		2016.10	3	13.8
		2017.01	3.1	15.7

## References

1. Jiang, X.; Wang, W.; Wang, S.; Zhang, B.; Hu, J. Initial identification of heavy metals contamination in Taihu Lake, a eutrophic lake in China. *J. Environ. Sci.* **2012**, *24*, 1539–1548, doi:10.1016/s1001-0742(11)60986-8.
2. Fan, X.; Xing, P. Differences in the Composition of Archaeal Communities in Sediments from Contrasting Zones of Lake Taihu. *Front. Microbiol.* **2016**, *7*, 1510, doi:10.3389/fmicb.2016.01510.