

Table 4 Levels of heavy metals in Red Sea sediments and other tropical locations worldwide comparing to background concentrations

Location	Cu	Zn	Pb	Cd	Fe	Mn	Ni	Co	References
Coastal sediment, Singapore	12.8-118.3	43.1-370.5	1.1-6.1	0.16-0.73			7.2-60.7		Cuong et al., 2008
Shanghai tidal flat	91-351	189-828	47-149	0.03-0.1					Chen et al., 2001
Tidal flat, coastal area, Korea	8.3-164.4	45.5-225.9	25-360	0.07-0.43			5.2-33.4		Na and Park, 2012
Korean coast	5.1- 91.2	26.5-233	21.1- 56	0.07-1.02			10-38.4	4.8-13.9	Ra et al., 2013
Shantou Bay, China	24.4-79.3	84.9-246.5	35.6-64.8	0.3-1.74	29300 - 39300	428-809	16.9-31.5		Qiao et al., 2013
Safax coast, Tunisia	13-29	39-117	18- 88	5.5-7	41011 - 50163				Gargouri et al., 2011
North Gulf of Suez	1.84-10.25	4.26-23.68	13.9-28.3	2.3-4.4					El-Moselhy and Gabal, 2004
Aqaba Gulf, Jordan	7.14-24	24-195	96.3-182	3.9-13.7	3400 - 14600	68.2-263	24-195		Abu-Hilal et al., 1988
Red Sea coastal area	22.1-106.8	24.9-174.2	30.9-76.1	1.9- 5.1	3324 - 19296	129.8-536.7	18.3-58.9	13.6-20.4	present study
Red Sea background	17.6	24	3	0.4	3000	116	16	3	Hanna, 1992
Average Shale	45	95	20	0.3		850	68	19	Forstner and Wittmann, 1979