**Table S24**: Marine sediment heavy metal concentration ranges in Port Everglades, FL, worldwide ports and estuaries.

|  |  |  |  |
| --- | --- | --- | --- |
| Heavy Metals | Concentrations  µg/g | Location | References |
| As | 4 – 29 | New South Wales, Australia\* | (Jahan and Strezov, 2018) |
| 6.7 – 19.9 | Koper, Slovenia\* | (Šmuc et al., 2018) |
| 8.0 – 21.0 | Naples, Italy\* | (Adamo et al., 2005) |
| 107 - 220 | Estaque, France\* | (Mamindy-Pajany et al., 2013) |
| 10 - 12.1 | Saint Mandrier, France\* | (Mamindy-Pajany et al., 2013) |
| 4.8 – 1740# | 19 England estuaries sites | (Kennish, 1997) |
| **0.607 – 223** | **Port Everglades, Florida, USA\*** | **This Study** |
| **1.70 – 21.7** | **West Lake, FL, USA** | **This Study** |
| **2.41 – 8.55** | **Reef Sites Fort Lauderdale, FL** | **This Study** |
| Cd | 0.1 – 0.4 | Koper, Slovenia\* | (Šmuc, 2018) |
| 0.09 – 0.47 | Laizhou Bay and Zhangzi Island, China | (Zhuang and Gao, 2014) |
| 0.2 – 2.5 | Naples, Italy\* | (Adamo et al., 2005) |
| 0.3-0.4 | Estaque, France\* | (Mamindy-Pajany et al., 2013) |
| 0.08 – 2.17 | 19 England estuaries sites | (Kennish, 1997) |
| 0.04 - 998 | 52 coastal world sites | (Qian et al., 2015) |
| **n/d – 0.916** | **Fort Lauderdale, Florida, USA\*** | **This Study** |
| **n/d – 0.282** | **West Lake, FL, USA** | **This Study** |
| **0.010 – 0.039** | **Reef Sites Fort Lauderdale, FL** | **This Study** |
| Cr | 1 – 31 | New South Wales, Australia\* | (Jahan and Strezov, 2018) |
| 8.4 – 90.4 | Laizhou Bay and Zhangzi Island, China | (Zhuang and Gao, 2014) |
| 10.3 – 162 | Naples, Italy\* | (Adamo et al., 2005) |
| 24 – 207 | 19 England estuaries sites | (Kennish, 1997) |
| 1.0 – 463 | 52 coastal world sites | (Qian et al., 2015) |
| 23. – 1467 | 40 U.S. estuaries sites | (Kennish, 1997) |
| **0.155 – 56.8** | **Fort Lauderdale, Florida, USA\*** | **This Study** |
| **0.337 – 11.2** | **West Lake, FL, USA** | **This Study** |
| **4.70 – 7.55** | **Reef Sites Fort Lauderdale, FL** | **This Study** |
| Co | 1 – 12 | New South Wales, Australia\* | (Jahan and Strezov, 2018) |
| 1.9 – 7.2 | Naples, Italy\* | (Adamo et al., 2005) |
| 6 - 26 | 19 England estuaries sites | (Kennish, 1997) |
| **0.024 – 7.40** | **Fort Lauderdale, Florida, USA\*** | **This Study** |
| **0.119 – 0.520** | **West Lake, FL, USA** | **This Study** |
| **0.030 – 0.100** | **Reef Sites Fort Lauderdale, FL** | **This Study** |
| Cu | 2 – 1195 | New South Wales, Australia\* | (Jahan and Strezov, 2018) |
| 17.6 – 37.8 | Koper, Slovenia\* | (Šmuc et al., 2018) |
| 2.9 – 28.7 | Laizhou Bay and Zhangzi Island, China | (Zhuang and Gao, 2014) |
| 40 – 415 | Naples, Italy\* | (Adamo et al., 2005) |
| 273 - 278 | Estaque, France\* | (Mamindy-Pajany et al., 2013) |
| 194 - 220 | Saint Mandrier, France\* | (Mamindy-Pajany et al., 2013) |
| 7 – 2398# | 19 England estuaries sites | (Kennish, 1997) |
| 0.5 - 604 | 52 coastal world sites | (Qian et al., 2015) |
| 0.06 – 21 | 40 U.S. estuaries sites | (Kennish, 1997) |
| **0.004 – 215** | **Fort Lauderdale, Florida, USA\*** | **This Study** |
| **0.260 – 30.4** | **West Lake, FL, USA** | **This Study** |
| **0.510 – 28.6** | **Reef Sites Fort Lauderdale, FL** | **This Study** |
| Pb | 2 – 165 | New South Wales, Australia\* | (Jahan and Strezov, 2018) |
| 10.7 – 30.2 | Koper, Slovenia\* | (Šmuc et al., 2018) |
| 6.7 – 34.0 | Laizhou Bay and Zhangzi Island, China | (Zhuang and Gao, 2014) |
| 37 – 314 | Naples, Italy\* | (Adamo et al., 2005) |
| 329 - 412 | Estaque, France\* | (Mamindy-Pajany et al., 2013) |
| 108 - 110 | Saint Mandrier, France\* | (Mamindy-Pajany et al., 2013) |
| 20 - 2753 | 19 England estuaries sites | (Kennish, 1997) |
| 3 - 2360 | 52 coastal world sites | (Qian et al., 2015) |
| 2.17 – 186 | 40 U.S. estuaries sites | (Kennish, 1997) |
| **0.0169 – 73.8** | **Fort Lauderdale, Florida, USA\*** | **This Study** |
| **0.14 – 16.4** | **West Lake, FL, USA** | **This Study** |
| **0.900 – 1.80** | **Reef Sites Fort Lauderdale, FL** | **This Study** |
| Mn | 6 – 201 | New South Wales, Australia\* | (Jahan and Strezov, 2018) |
| 95 – 535 | Naples, Italy\* | (Adamo et al., 2005) |
| 316.6 – 326 | Persian Gulf, Iran\* | {Abdollahi et al., 2013) |
| 185 - 1169 | 19 England estuaries sites | (Kennish, 1997) |
| 0.4 - 4643 | 52 coastal world sites | (Qian et al., 2015) |
| **1.61 – 204** | **Fort Lauderdale, Florida, USA\*** | **This Study** |
| **9.38 - 93.8** | **West Lake, FL, USA** | **This Study** |
| **10.1 – 24.1** | **Reef Sites Fort Lauderdale, FL** | **This Study** |
| Hg | 0.5 – 2.73 | Persian Gulf, Iran\* | (Abdollahi et al., 2013) |
| 0.005 – 0.31 | District of Klang, Malaysia | (Tavakoly et al., 2012) |
| 0.018 – 0.536 | South Korea\* | (Choi et al., 2011) |
| 0.03 – 3.01 | 19 England estuaries sites | (Kennish, 1997) |
| 0.01-1.8 | 52 selected coastal world sites | (Qian et al., 2015) |
| 0.01 – 2.34 | 40 U.S. estuaries sites | (Kennish, 1997) |
| **n/d – 0.736** | **Fort Lauderdale, Florida, USA\*** | **This Study** |
| **n/d – 0.262** | **West Lake, FL, USA** | **This Study** |
| **n/d -0.046** | **Reef Sites Fort Lauderdale, FL** | **This Study** |
| Mo | 40 | New South Wales, Australia\* | (Jahan and Strezov, 2018) |
| 0.7 – 1.8 | Koper, Slovenia\* | (Šmuc et al., 2018) |
| 0.5 – 5.3 | Naples, Italy\* | (Adamo et al., 2005) |
| **n/d – 385** | **Fort Lauderdale, Florida, USA\*** | **This Study** |
| **n/d – 3.61** | **West Lake, FL, USA** | **This Study** |
| **n/d – 0.040** | **Reef Sites Fort Lauderdale, FL** | **This Study** |
| Ni | 3 – 20 | New South Wales, Australia\* | (Jahan and Strezov, 2018) |
| 61.3 – 109.4 | Koper, Slovenia\* | (Šmuc et al., 2018) |
| 3.2 – 47.1 | Laizhou Bay and Zhangzi Island, China | (Zhuang and Gao, 2014) |
| 20-24 | Estaque, France\* | (Mamindy-Pajany et al., 2013) |
| 15-19 | Saint Mandrier, France\* | (Mamindy-Pajany et al., 2013) |
| 14 - 58 | 19 England estuaries sites | (Kennish, 1997) |
| 2-240 | 52 coastal world sites | (Qian et al., 2015) |
| **0.232 – 29.3** | **Fort Lauderdale, Florida, USA\*** | **This Study** |
| **0.438 – 16.8** | **West Lake, FL, USA** | **This Study** |
| **0.410 – 0.860** | **Reef Sites Fort Lauderdale, FL** | **This Study** |
| Se | 0.4 – 8.8 | New South Wales, Australia | (Peters et al., 1999) |
| 0.2 – 1.7 | Solomon River, Kansas, USA | (May et al., 2007) |
| 0.2 – 0.3 | Kuskokwim River, Alaska, USA | (Belkin and Sparck, 1993) |
| n/d – 1.51 | 19 England estuaries sites | (Kennish, 1997) |
| **n/d – 4.79** | **Fort Lauderdale, Florida, USA\*** | **This Study** |
| **0.115 – 0.885** | **West Lake, FL, USA** | **This Study** |
| **0.040 – 0.120** | **Reef Sites Fort Lauderdale, FL** | **This Study** |
| Sn | 3 – 37 | New South Wales, Australia\* | (Jahan and Strezov, 2018) |
| 0.40 - 161 | 19 England estuaries sites | (Kennish, 1997) |
| **n/d – 140** | **Fort Lauderdale, Florida, USA\*** | **This Study** |
| **0.064 – 7.70** | **West Lake, FL, USA** | **This Study** |
| **0.990 – 2.07** | **Reef Sites Fort Lauderdale, FL** | **This Study** |
| V | 2.5 – 13.5 | New South Wales, Australia\* | (Jahan and Strezov, 2018) |
| 18 – 94 | Naples, Italy\* | (Adamo, 2005) |
| 30.6 – 32.5 | Persian Gulf, Iran\* | (Abdollahi, 2013) |
| **0.160 – 176** | **Fort Lauderdale, Florida, USA\*** | **This Study** |
| **0.432 – 59.6** | **West Lake, FL, USA** | **This Study** |
| **3.80 – 9.12** | **Reef Sites Fort Lauderdale, FL** | **This Study** |
| Zn | 7 – 2345 | New South Wales, Australia\* | (Jahan and Strezov, 2018) |
| 54.0 – 99.0 | Koper, Slovenia\* | (Šmuc et al., 2018) |
| 12.8 – 88.6 | Laizhou Bay and Zhangzi Island, China | (Zhuang and Gao, 2014) |
| 41 – 1196 | Naples, Italy\* | (Adamo, 2005) |
| 329 - 538 | Estaque, France\* | (Mamindy-Pajany, 2013) |
| 209 - 221 | Saint Mandrier, France\* | (Mamindy-Pajany, 2013) |
| 46 – 2821# | 19 England estuaries sites | (Kennish, 1997) |
| 7 - 4430 | 52 coastal world sites | (Qian et al., 2015) |
| 32.00 – 433.75 | 40 U.S. estuaries sites | (Kennish, 1997) |
| **0.112 – 603** | **Fort Lauderdale, Florida, USA\*** | **This Study** |
| **0.409 – 49.8** | **West Lake, FL, USA** | **This Study** |
| **2.76 – 91.1** | **Reef Sites Fort Lauderdale, FL** | **This Study** |

\* port; # location with contaminated acid mine waste; n/d = non-detected.

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