

Various Study Results for Loading of Arsenic in Representative Residuals

Arsenic sludge from iron coagulation process

8881 mg As/kg dry solid

Data Source: Jing et al., *ES&T*, 37:5050-5056, 2003

Packed bed sorbents (authors are unclear if values are reported per mass of wet or per mass of dry sorbent)

GFH 2420 mg As/kg (46.5% water content) Granular ferric hydroxide

GFO 5660 mg As/kg (52.0% water content) Granular ferric oxide

TiO₂ 3554 mg As/kg (50.3% water content) Granular titanium dioxide

AA 226 mg As/kg (35.3% water content) Activated alumina

MAA 443 mg As/kg (31.6% water content) Modified activated alumina

Data Source: Jing et al., *ES&T*, 39:5481-5487, 2005

Packed bed sorbents

Activated alumina, AA 500-1000 mg As/kg dry solid

Granular ferric hydroxide, GFH up to 45000 mg As/kg GFH

Data Source: Chowdhury et al., AwwaRF Project Report, "Implementation of Arsenic Treatment Systems: Part 1, Process Selection", 2002

Packed bed sorbents

Activated alumina, AA 1020 mg As/kg dry solid

Granular ferric hydroxide, GFH 5980 mg As/kg GFH

Data Source: Ghosh et al., STOTEN, accepted August 2005

Packed bed sorbents

Activated alumina, AA 1270 mg As/kg dry solid

Granular ferric hydroxide, GFH 7200 mg As/kg GFH

Data Source: Ghosh et al., *ES&T*, 38:4677-4682, 2004