

Supplementary Material (ESI) for Journal of Environmental Monitoring
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Supplementary material Stability constants for the different species to be considered from the LLNL database

Species	^a Stability constants (log β ⁰)
Eu(CO ₃) ⁺	-2.4057
Eu(CO ₃) ₂ ⁻	-8.3993
Eu(CO ₃) ₃ ³⁻	-16.8155
Eu(OH) ²⁺	-7.9075
Eu(OH) ₂ ⁺	-14.8609
Eu(OH) ₃	-24.1253
Eu(OH) ₄ ⁻	-36.5958
Eu(OH)(CO ₃)	-8.4941
Eu(OH) ₂ (CO ₃) ⁻	-17.8462
Eu(OH)(CO ₃) ₂ ²⁻	-15.1760
pKs Eu(OH) ₃	15.3482

^a HCO₃⁻ is the master species.