

Supplementary Information

Coagulation of Colloidal Particles with Ferrate(VI)

Dongyu Lv^{†,‡}, Lei Zheng[‡], Huiqin Zhang^{‡,§}, Yang Deng^{‡,}*

[†]College of Chemistry and Chemical Engineering, Lanzhou University, Lanzhou, Gansu
Province, 730000, China

[‡] Department of Earth and Environmental Studies, Montclair State University, Montclair, New
Jersey 07043, United States

[§] School of Civil Engineering, Architecture and Environment, Hubei University of Technology,
Wuhan, Hubei Province, 430068, China

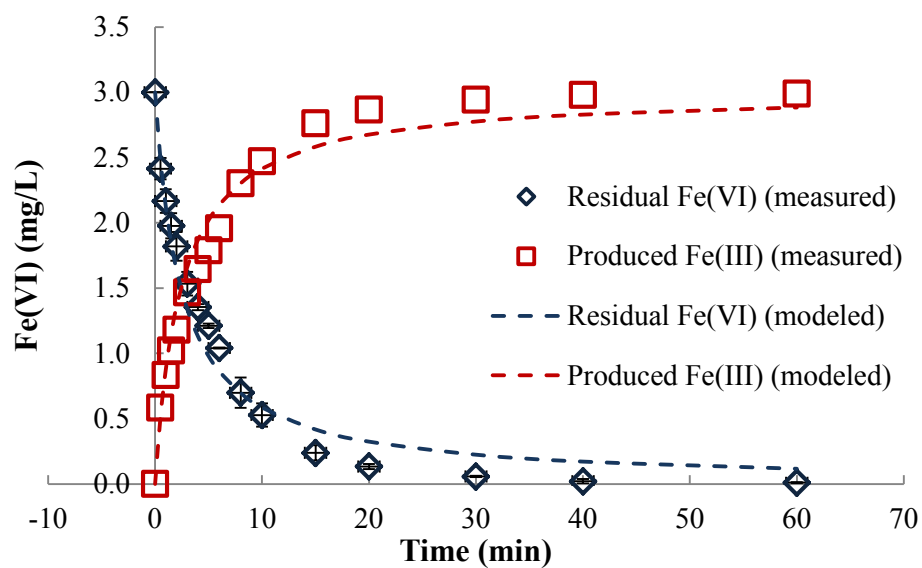


Figure SI-1. Residual Fe(III) and accumulated Fe(III) profiles during Fe(VI) decomposition in simulated natural water (pH 7.5; Fe(VI) = 3.0 mg/L; and initial turbidity = 25.00 NTU) (scattered symbols and dash lines represent measured and modeled data, respectively.)

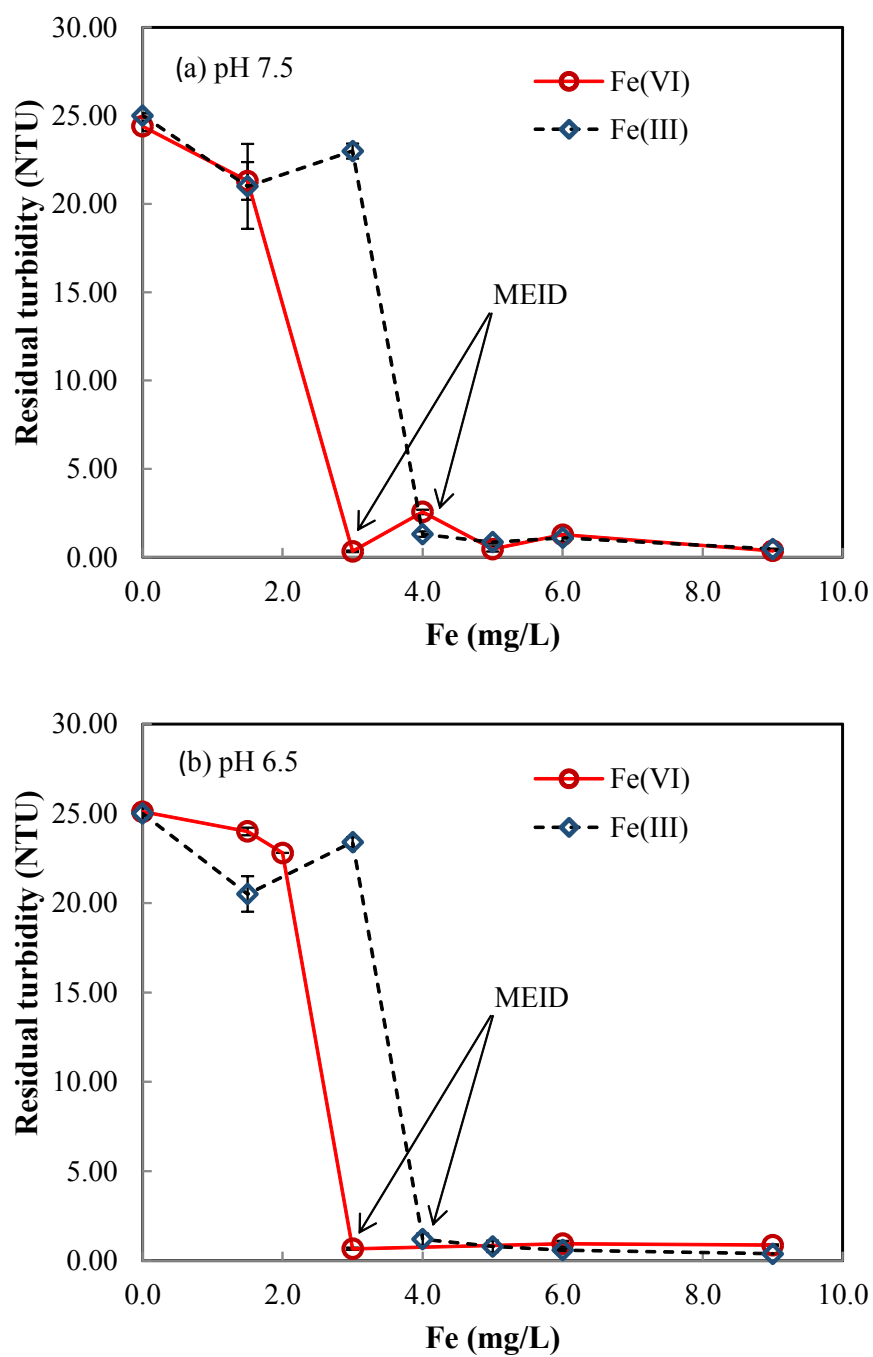


Figure SI-2. Typical patterns of residual turbidity as a function of Fe(VI) or Fe(III) dose: (a) pH 7.5; and (b) pH 6.5 (initial turbidity = 25.00 NTU)