









+ 4e ⁻ +4H ⁺		oxygen is depleted, cceptor (400–600 m	
"Microbial pi Element	reference" Oxidized Form	Reduced Form	Approximate Redox Potential for Transformation (mV)
Nitrogen Manganese Iron Sulfur Carbon	NO ₃ ⁻ (nitrate) Mn ^{**} (manganic) Fe ^{3*} (ferric) SO ₄ [*] (sulfate) CO ₂ (carbon dloxide)	N_2O , N_2 , NH_4^* Mn^{2+} (manganous) Fe^{2+} (ferrous) S^* (sulfide) CH_4 (methane)	250 225 +100100 -100200 Below -200





























