

Remotox

Pre-test

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POSTECH

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Composition

Groundwater contaminated by Zn smelter

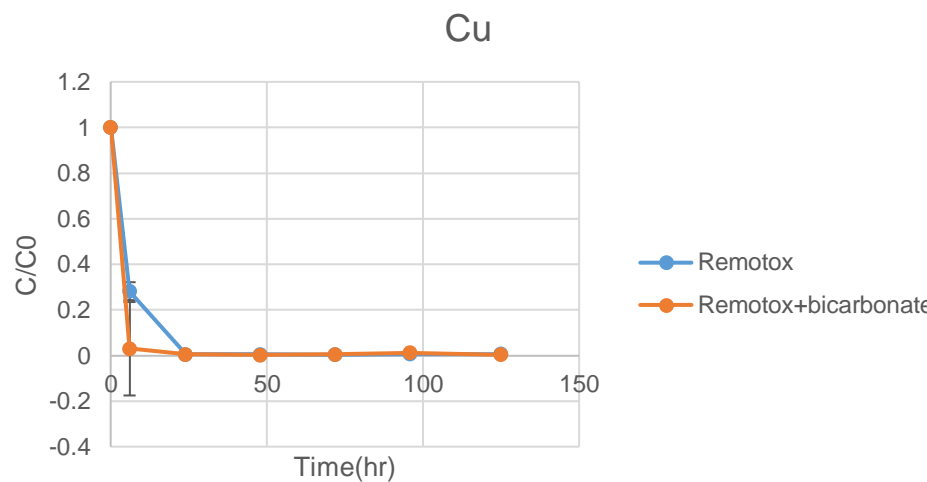
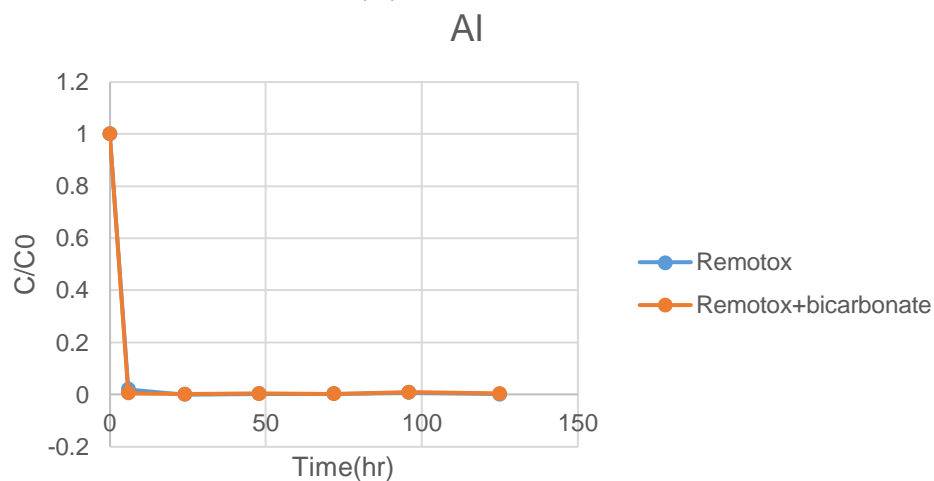
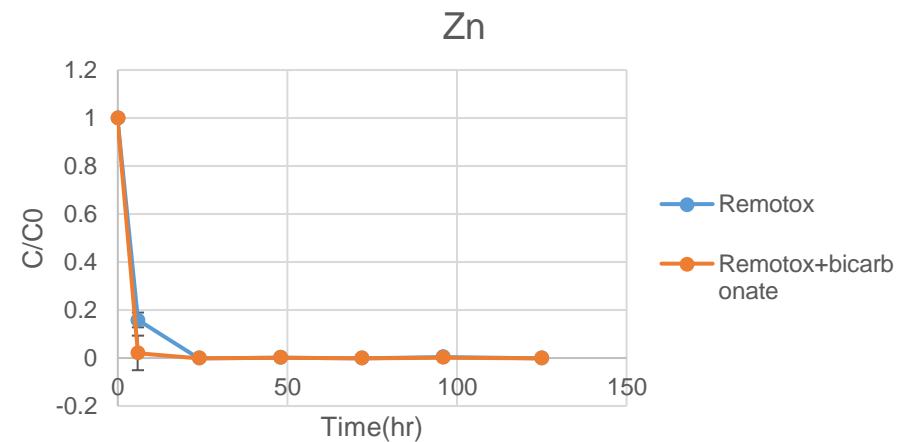
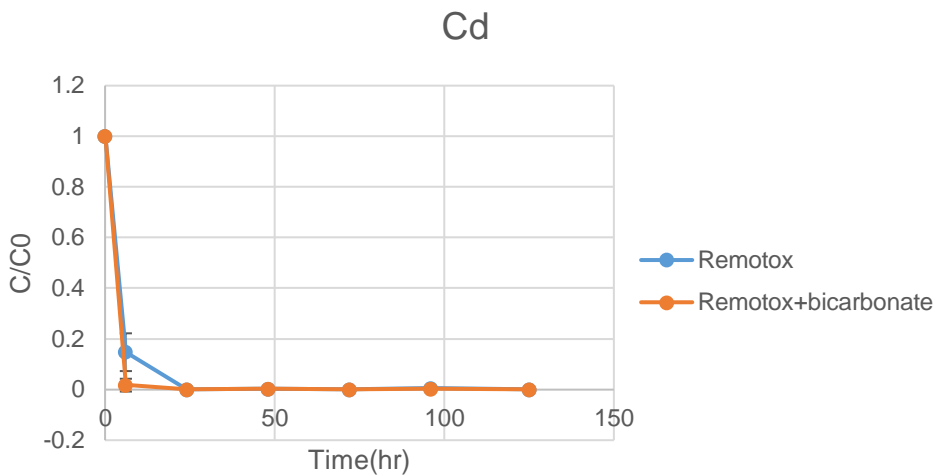
Factors	mg/L
pH	2.5 ~ 3.0
Cd	276.8
Fe	87.2
Zn	1159.2
Mn	117.0
Cu	5.0
Al	120.0
Ni	2.8
As	0.08
Pb	0.18
Cr	0.33
SO₄²⁻	8135.5
NH₄⁺	26.1
NO₃⁻	29.3
Cl ⁻	111.0
HCO ₃ ⁻	ND
K	75.3
Mg	209.6
Na	180.7
Ca	295.5
T-P	1.20
TOC	6.8

Experimental protocol

- **Protocol**
 - Use of real groundwater
 - Adding soil (25 g) and groundwater (100 mL) into glass serum bottle.
 - Injection of Remotox 3 mL (3%)
 - Reaction in room temperature without rolling.
 - Sampling every day (shaking only at sampling)

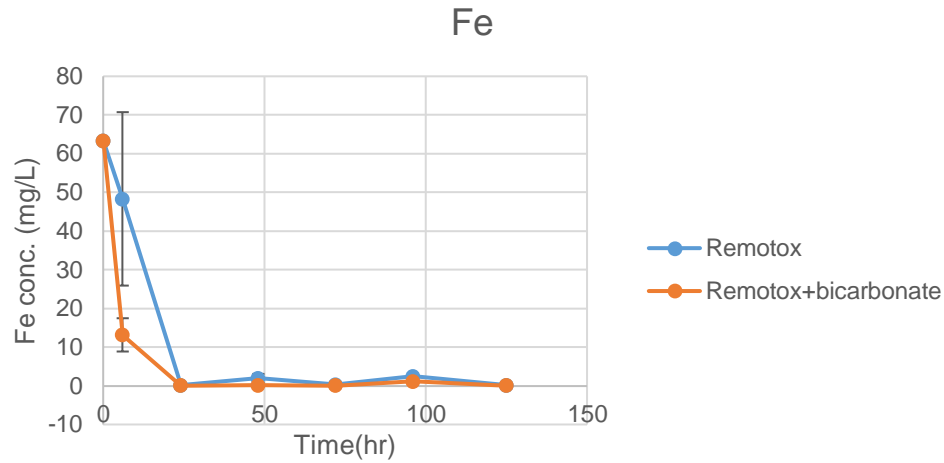


Batch results



$[Cd]_0 = 229.7 \text{ mg/L}$, $[Zn]_0 = 1117.8 \text{ mg/L}$, $[Al]_0 = 225.8 \text{ mg/L}$, $[Cu]_0 = 8.3 \text{ mg/L}$, $[pH]_0 = 2.486$, $[ORP]_0 = 397.7 \text{ mV}$

Batch results



After injection



After 5 days