

# Supplementary Materials: Enhancing Signal Output and Avoiding BOD/Toxicity Combined Shock Interference by Operating Microbial Fuel Cell Sensor with Optimized Background Concentration of Organic Matter

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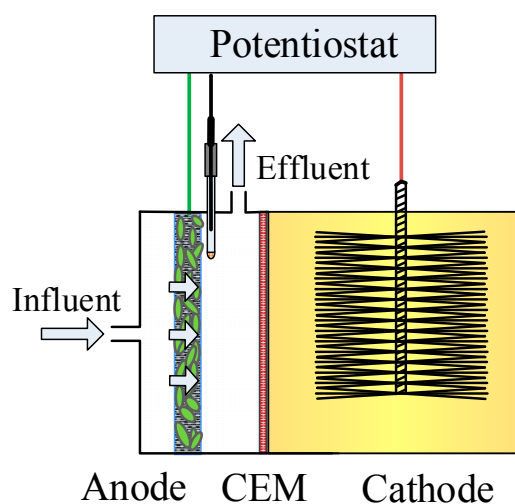


Figure S1. Schematic of the two chamber MFC sensor for toxicity monitoring.

Table S1. The effect of organic matter on the signal ( $\Delta I$ ) of 3 mg/L Cu(II) shock.

| Organic Matter Concentration <sup>a</sup> | $\Delta I$ (mA)      |                    |
|---|----------------------|--------------------|
|   | 0.3 mM in Background | 5 mM in Background |
| 5 mM in shock                             | 1.626                | 1.809              |
| 0.5 mM in shock                           | 1.191                | 1.061              |
| 0.3 mM in shock                           | 0.430                | 0.229              |

<sup>a</sup> the organic matter here was a certain concentration of acetate.