Electronic Supplementary Material (ESI) for Environmental Science: Processes & Impacts.


**Supplementary material**

# A novel WH-flags method based on reducing the acidity of molybdenum blue (MB) reaction and stabilization by EDTA for quickly detecting phosphorus in water

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**Table S1. Increasing rates from the initiation of stabilization to the ending** (in the 40 min course)

| | **0.1 mg/L P** | **0.2 mg/L P** | **0.8 mg/L P** | **1.4 mg/L P** | **1.6 mg/L P** | **1.8 mg/L P** |
|---|---|---|---|---|---|---|
| **Reactive P** | 4.00–4.08 % | | 1.53–1.55 % | 0.90–1.34 % | | |
| **Total P** | 5.26–7.69 % | 2.63–3.85 % | 1.69–2.01 % | | -4.07–0.34 % | -3.65 – -0.30 % |

**Table S2. The linearity, linear ranges, and equations of reactive P and total P**

| | **Linear range (mg/L)** | **Equation** | **$R^2$** |
|---|---|---|---|
| **Reactive P** | 0-1.4 | Y=0.479 * X | 0.9997 |
| **Total P** | 0-1.8 | Y=0.367 * X | 0.9999 |

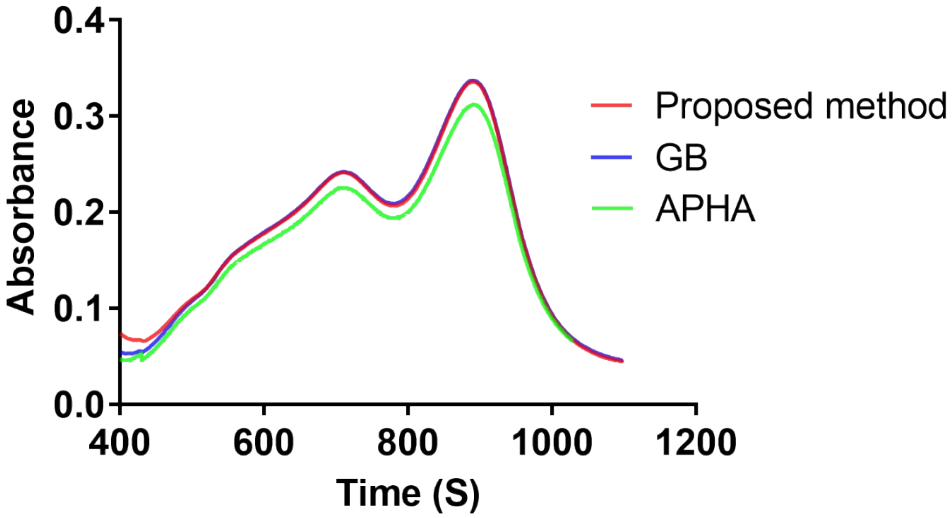


**Fig. S1. The spectrum for 0.5 mg/L reactive P by three methods**