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Characterizing colloidal metals in drinking water by field flow fractionation

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This document contains 4 pages, 2 tables, and 3 figures.

Table S1. FFF and ICP-MS instrument settings.

FFF settings	
Spacer	500 µm
Sample loop volume	1 mL
Injection flow rate	0.5 mL min^{-1}
Cross-flow rate	2.5 mL min^{-1} – 0.1 mL min^{-1}
Channel flow rate	1 mL min^{-1}
Focusing time	10 min
Elution time	28 min

ICP-MS settings	
Forward power	1400 W
Nebulizer flow rate	0.88 L min^{-1}
Collision cell flow rate	7.05 mL min^{-1}
Auxiliary flow rate	0.70 L min^{-1}
Dwell time	0.1 s

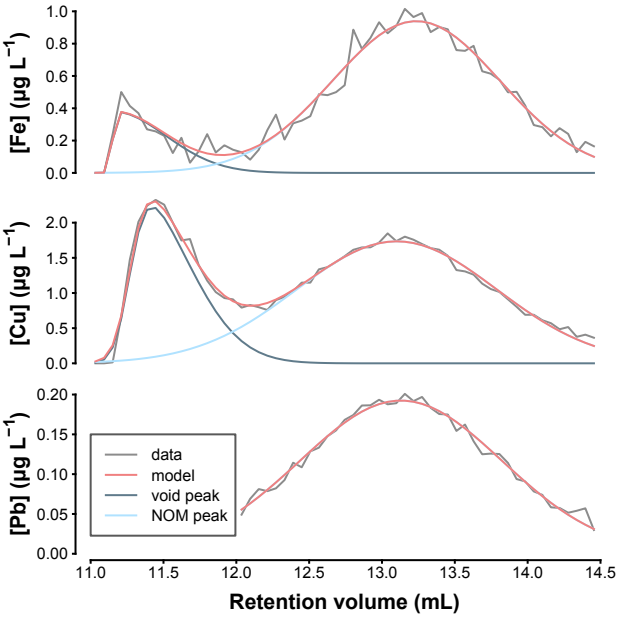

Figure S1. Skewed and ordinary Gaussian fits to the void and NOM peaks (fractions 1 and 2), the latter representing organically complexed metals. Fractograms represent site A, round 2.

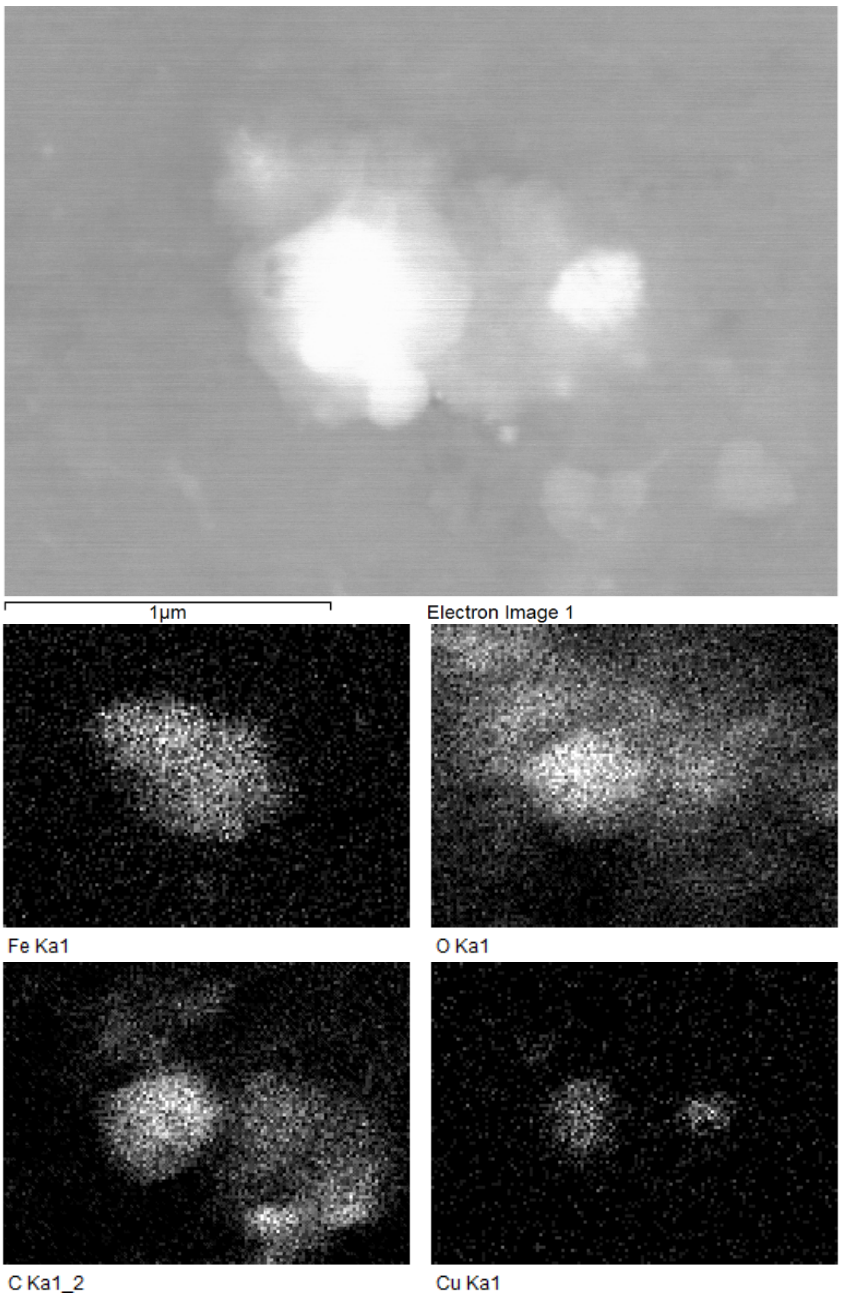

Figure S2. Abundance maps of iron, oxygen, copper, and carbon acquired by energy dispersive X-ray spectroscopy, representing a typical micron-sized heteroaggregate.

Table S2. Semiquantitative weight percentages as determined by energy dispersive X-ray spectroscopy, representing the heteroaggregate shown in Figure S2.

Element	Percent weight
C	33.4
O	36.7
Na	1.9
Mg	21.0
Si	0.5
K	0.8
Ca	0.6
Fe	3.3
Cu	1.7

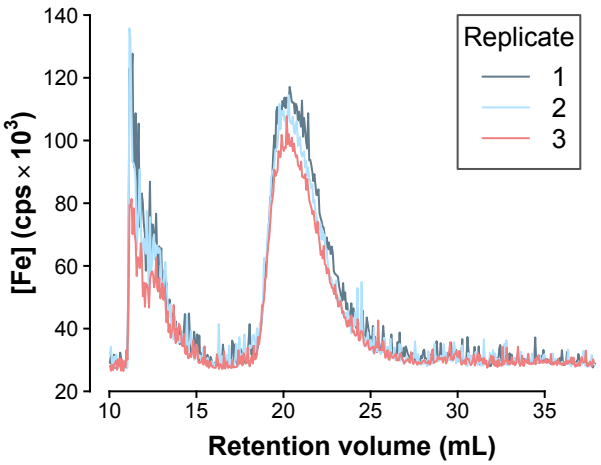

Figure S3. FFF separation of hematite, suspended in polyphosphate (0.6 mg P L^{-1}). Replicates represent separately prepared and filtered suspensions; this variation—in addition to variability due to the method itself—is reflected in the fractograms.