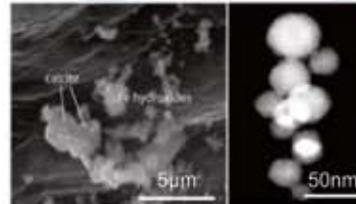


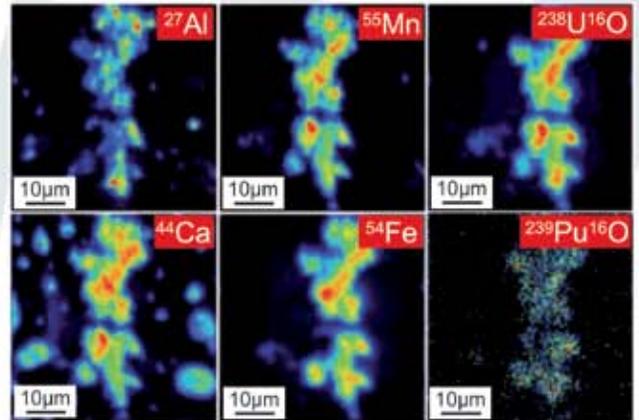


NanoSIMS 50L
Sub-micron scale analysis
of trace elements & isotopes

While TEM-EDS is used to measure major elements, the **NanoSIMS** offers enough sensitivity to map trace elements (U, Pu) with sub-micron lateral resolution



Nuclear contamination study. Colloids collected from the groundwater at variable distance from a nuclear site. NanoSIMS maps reveal that amorphous iron oxide colloids absorb Pu(IV) hydroxides or carbonates along with uranium carbonates.

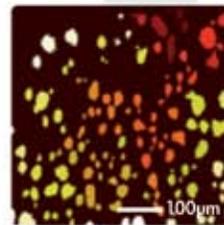


From Alexander P. Navlov et al., SCIENCE, vol 314 (2006) pp. 638-641

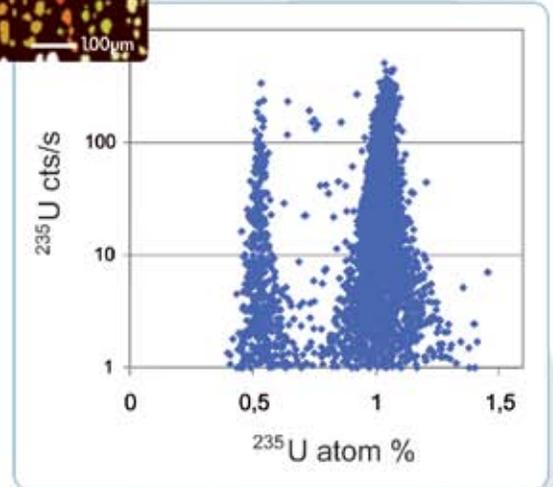


IMS 1280-HR
High throughput isotopic
characterization of small particles

The **IMS 1280-HR** performs fast screening of the sample to determine the location and enrichment of uranium particles. Selected particles are then analyzed individually in order to obtain their precise isotopic composition.



Analysis of uranium particle sample with dual isotopic composition: identification of 6,653 particles; the two expected isotopic signatures at 0.5% depletion and ~1% enrichment are clearly distinguished.



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- Controlled, gentle heating
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- Built-in waste drain
- Savillex PFA collection bottle



View the DST-1000 in action online at:
www.savillex.com



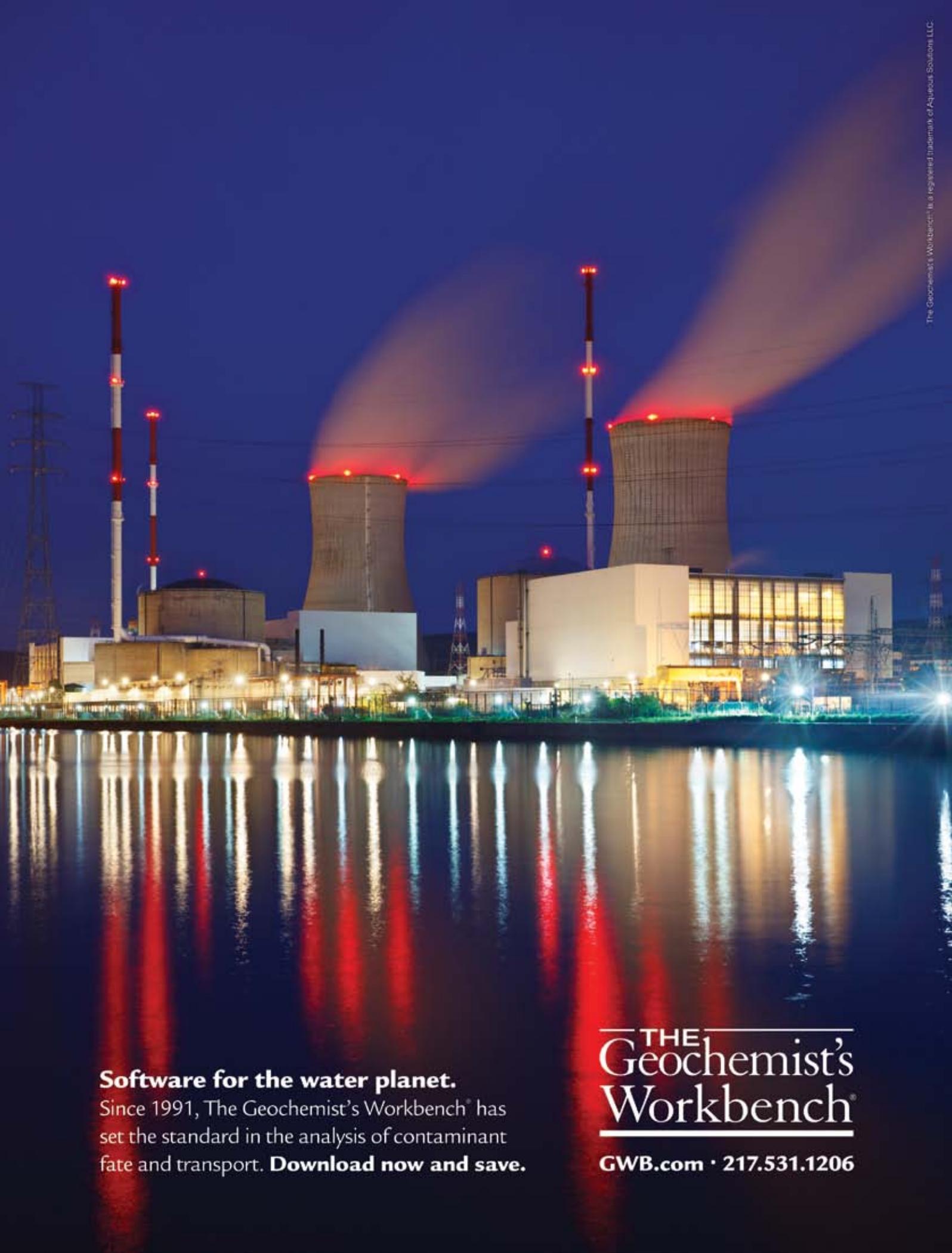
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500 ml
1000 ml



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