

Case Study: MetSorb™ removes depleted uranium from contaminated water at U.S. Army testing site

Engineers from the US Army Tank- Automotive and Armaments Command – Armament Research, Development and Engineering Center (TACOM-ARDEC) at Picatinny Arsenal, N.J. and at Stevens Institute of Technology used MetSorb, Graver’s leading adsorptive filtration media, to successfully remove depleted uranium from wastewater generated at military testing sites.

Confirming preliminary pilot tests conducted at Picatinny Arsenal, the removal results from the test at the Aberdeen Proving Grounds in Maryland came in well below the federally regulated parts-per-billion standard. Use of MetSorb results in a small volume of filtered waste product thus eliminating the need for what had been a standard, costly disposal and long-term storage system for the residual radioactive waste.

“Over 54 hours, about 2,300 gallons of contaminated water was filtered,” stated John Beckman, Radiation Health Officer/Health Physics at Aberdeen. “Once we received the “OK” from the NRC, we can actually dispose of the filtered water via sanitary sewage – it is that completely free of contamination.” Beckman continued, “Compared to the standard means of disposal, this represents a cost-saving of about \$50,000 per 800 gallons of water.”

MetSorb, which comes in powdered or granular form, is also used in systems for removal of a wide variety of heavy metals from contaminated water, including arsenic, cadmium, copper, chromium, lead, mercury and zinc.

“We are delighted that MetSorb has achieved such a dramatic reduction in the level of depleted uranium at the Army’s test sites,” said John Schroeder, President of Graver. He added, “Graver is committed to providing the most efficient, low-cost solutions for the removal of toxic heavy metals contaminating the water supply.”

For more information, contact us at

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