

# Controlling Fouling in Landfill Leachate Handling Systems



Division of Azure Water Services, LLC



Redux Technology was established in 1990, and continues to be the only company to develop specialized chemical formulations to control fouling in groundwater remediation systems. To date, the company has provided deposit control programs to over 2,000 remedial sites in every US State. These sites include lined and unlined landfills operating groundwater protection systems. As a result of work at these sites, Redux engineers began to recognize operating problems in leachate management systems which are very similar to those faced in remedial systems. In response, Redux has developed chemical formulations specifically for controlling the serious fouling seen in many leachate collection and management systems. These products suppress or eliminate inorganic deposition in leachate collection sumps, recovery pumps and conveyance pipelines, reducing the need for recovery pump repair and pipeline jetting. Fouling can also occur in gas recovery systems, severely reducing gas recovery rates and associated positive cash flow. Redux formulations are compatible with leachate collection system materials of construction, leachate treatment systems, and are safe for discharge to surface water or POTW's.



Chemical  
Feed Station  
at Riser  
Building

Fouling in leachate recovery systems can be generally characterized as one of two types: 1) on left above, inorganic deposition usually containing iron oxy-hydroxides and hardness salts, and 2) biofouling: The middle photo shows a poly-acetate bio-deposition which exhibits elasticity. The photo above right shows a layered deposit where bio-growth was sandwiched between crystalline inorganic layers.

Contact us at 203-933-9071 or [www.info@reduxtech](mailto:www.info@reduxtech) to see how we can help you reduce operations expenses.