



SOLUTIONS FOR SUSTAINABILITY

INNOVATIVE TECHNOLOGIES THAT ARE PROTECTING COMPANIES AND THE ENVIRONMENT

Virotec's technology has been successfully applied in industries as diverse as mining, electroplating, aquaculture, sewage treatment, property development and timber preservation.



It is now widely accepted that if the world's ecosystems continue to suffer, then our economy, corporations, and the quality of life we currently enjoy as individuals will all suffer. Virotec is a world leader in meeting the demand for new and practical solutions to tough environmental problems. Virotec has developed a suite of breakthrough, economical technologies to treat highly contaminated wastewater, sludge, waste rock and soil – enabling companies to meet EPA regulations, reduce their future liabilities and help in preserving our environment.

VIROSOIL™ TECHNOLOGY *Transforming contaminated land sites into valuable real estate*



ViroSoil™ Technology can be used to remediate industrial sites. This site in Townsville was rendered safe and used for residential development.

The EPA is increasingly demanding that industry “clean up” sites with a legacy of contamination and as major metropolitan areas expand to cope with rapid population growth, property developers are often seeking to redevelop disused industrial sites – but because of past manufacturing processes and practices these potentially valuable sites can be badly contaminated.

ViroSoil™ Technology has proven to be highly successful for treating sites contaminated with hazardous metals like arsenic, lead and zinc. The technology is also ideal for treating sites with acid sulphate soil – which can be highly corrosive to concrete and steel. Treated soil can be safely transported to landfill sites or left *in situ*.

VIROFLOW™ TECHNOLOGY *Treating toxic industrial wastewater and sludge*



ViroFlow™ Technology is used to neutralise acidity, remove heavy metals and odour from wastewater at a Queensland Rail depot.

A major problem facing many industries is how to deal with wastewater and sludge, often laden with contaminants dangerous to both human beings and the environment. ViroFlow™ Technology removes up to 99.9% of metals and treats water to a standard usually better than most water authorities demand – and treats hazardous sludge to inert solids standards. ViroFlow™ Technology has produced stunning results in different industry sectors as these and many other testimonials confirm.

“ViroFlow™ Technology has alleviated a problem that had existed in our plant for over ten years...”

Australian Paper, Tasmania, Australia

“As a result of implementing ViroFlow™ Technology, EPW is now in a position to recycle water within the electroplating process.” **Excellent Plating Works, Victoria, Australia**

VIROMINE™ TECHNOLOGY *Preventing the devastating effects of acid mine drainage*



A world first – highly contaminated water in this tailings dam was safely released after treatment with ViroMine™ Technology and revegetation around its banks now flourishes.

Without mining we would not enjoy countless items, from computers to aircraft – but worldwide, thousands of tailings dams contain billions of tonnes of toxic mineral processing wastes. Mining also results in acid mine drainage (caused by sulphidic rock being exposed to oxygen and rainfall) which kills aquatic life, plant life and endangers both stock and humans.

Technology verified by the US EPA

ViroMine™ Technology is a major environmental breakthrough – neutralising acid, permanently binding heavy metals like cadmium and copper (without producing a hard-to-manage toxic sludge), preventing leaching and promoting vigorous revegetation. The technology – successfully trialled by the US EPA – can be used to treat acid mine drainage, tailings dams and waste rock dumps.

VIROSEWAGE™ TECHNOLOGY *A breakthrough in treating municipal waste*



ViroSewage™ Technology easily integrates with existing facilities for a seamless and effective solution.

With the world's exploding population, treating sewage is a growing challenge. ViroSewage™ Technology is a revolutionary process that allows existing sewage plants to increase capacity, remove up to 99.9% of phosphorus, lower BOD, suspend solids and turbidity, eliminate odour, cut sludge management costs and produce environmentally safe biosolids that can be used as a valuable fertiliser.

ViroSewage™ Technology can also be easily integrated with existing plants - with low capital investment.

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TOWARDS A CLEANER ENVIRONMENT