

CASE STUDIES

- > HYDROCARBONS: CEC Group, Australia
- > CONTAMINATED SOIL: WestRock Developments, Australia
- > ACID SULPHATE SOIL: Tomei Australia and Tweed Shire Council, Australia
- > DREDGING: Gladstone Port Authority, Australia
- > SOIL CONDITIONING: Action Sands and Tryton, Australia



TOWARDS A CLEANER ENVIRONMENT

Hydrocarbon and Heavy Metal Contaminated Soil • Dredge Spoil



Soil Conditioning • Acid Sulphate Soils • Revegetation



www.virotec.com



For further information about ViroSoil™ Technology please contact:

ViroSoil™ Technology

Contaminated Site Remediation
and Soil Treatment

VIROSOIL™ TECHNOLOGY CAPABILITY STATEMENT

The effective and economical remediation of contaminated sites is necessary to protect the environment and our communities, and to finally solve Australia's pollution legacy. Contaminated site remediation has also become an integral component of modern sustainable development.

ViroSoil™ Technology is a proven effective process to remediate land contaminated with heavy metals and hydrocarbons.

ViroSoil™ Technology can also be employed to neutralise the actual and potential acidity of Acid Sulphate Soils (ASS). In revegetation applications, ViroSoil™ Technology treatment supports germination, and the establishment and persistence of flora by binding heavy metals into non-bio-available forms;

it neutralises any acidity in target areas and enhances soil structure, water holding capacity, and nutrient balance and availability.

The transformation of contaminated and degraded land into a thriving ecological community is possible through the application of ViroSoil™ Technology.

Contrary to the "dig and dump" method that spatially and temporarily transfers pollution legacies, ViroSoil™ Technology permanently solves the problems caused by contaminated soil.

Simple to apply on any scale (1 to 1,000,000m³), ViroSoil™ Technology provides an economically attractive solution with guaranteed results.

ViroSoil™ Technology has been developed to meet the needs of the client and the site, regardless of how contaminated the site is with hydrocarbons and heavy metals.

Whether to allow reuse of former industrial sites, to facilitate sustainable development in the presence of Acid Sulphate Soils, to revegetate contaminated sites and landfill or to transform spoil and wastes into valuable resources, ViroSoil™ Technology is the method of choice for the modern environmental remediation professional.

For all your contaminated site remediation and soil treatment needs contact our team of experienced professionals at Virotec.



VIROSOIL™ TECHNOLOGY

ViroSoil™ Technology is a unique technology for contaminated soil remediation, that has been successfully applied around the world to treat acidity, heavy metals, hydrocarbons and objectionable odours.

The Rapid Sequestro-Degredation (RSD) method of treatment is a synergy between reagent additives and engineering know-how that rapidly degrades hydrocarbons.

RSD is used when hydrocarbons are present, and can be utilised at disused industrial sites, for contaminated soil at oil refineries and processing facilities, landfills, ports and marinas and other industrial facilities that generate and spill hydrocarbon based contaminants.

ViroSoil™ Technology has been developed to meet the needs of the client and the site, and can be applied *in-situ* or *ex-situ*.

ViroSoil™ Technology effectively treats heavy metals, hydrocarbons, acidity and odour



> VIROBIND™

A reagent designed to treat heavy metal and hydrocarbon contaminated soil, Acid Sulfate Soil (ASS) and marine clays, enhance nutrient retention capacity and promote grass, plant and tree growth.

ViroBind™ reagent can be formulated in multiple combinations using inorganic and organic additives, enzymes and microbes based on site conditions and client needs.



> VIROGROW™

A product that has been specifically developed for soil remediation in degraded agricultural soil and dredge spoils.

ViroGrow™ reagent not only neutralises acidity, it incorporates essential plant nutrients, such as potassium, nitrogen, phosphate, calcium and magnesium trace elements.

ViroGrow™ reagent will also bind toxic metals, including aluminium, copper and manganese, from affected soils.



Soils contaminated by hydrocarbons such as diesel, petrol, jet fuel and cooking oils can be successfully remediated using advanced bio-remediation techniques by applying ViroSoil™ Technology.

Exciting, proven technology for contaminated site remediation and soil treatment

