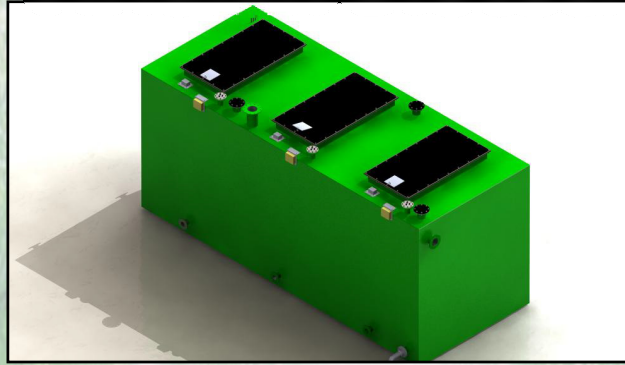




# Viridian Biotechnologies



## Leachate Treatment

Leachate contains two main contaminants which can cause major pollution of rivers and groundwaters:

- Ammonia - even very low concentrations can kill fish
- Dissolved organic compounds measured as Chemical Oxygen Demand (COD) - these reduce the dissolved oxygen levels and will also destroy all aquatic organisms.

Other pollutants commonly found in leachate include:

- Pesticides
- Metals
- Suspended solids
- Dissolved methane

Viridian can provide treatment solutions for all landfill leachates, offering the most appropriate treatment technology. For almost 100% of cases Aerobic Biodegradation is by far the most cost-effective process for ammonia removal and additionally:

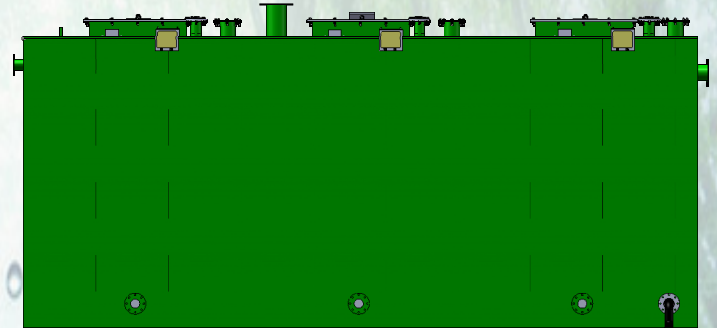
- Significantly reduces COD, pesticides, metals and suspended solids
- Removes dissolved methane and odours

We offer several plant options including: -

- Sequencing Batch Reactor (SBR)
- Fixed Film Bioreactor (MBBR)
- Membrane Bioreactor (MBR)
- Aerated Lagoon

Additional process options include: -

- Denitrification - for removal of nitrate
- Physico-Chemical Treatment (PCT) - for removal of metals
- Activated carbon adsorption - for removal of pesticides
- Settlement, clarification and filtration for removal of suspended solids



## Fully Mobile Treatment Capability!

Viridian can now offer on-site mobile treatment plants capable of producing an effluent that can be safely discharged from site offering a considerable cost saving! We can deliver, install, commission and operate the plant on a site specific basis.

The features of the plant include

- **Full Telemetry Package**
  - Continuous Ammonia Metering
  - System Status
  - Flows
  - Pump Status
  - Temperature
- **Containerised Control Room**

**Contact us now on 0151 639 8666**

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