

Project: Overloaded industrial site Septic.

Waste type: Toilet Block servicing 80 staff. Human effluent.

Problems:

1. Septic tanks not handling load prior to discharge to onsite effluent ponds.
2. Effluent ponds high in suspended solids, BOD's, algae, odour etc.
3. Water restrictions causing less flow through and more concentrated waste.

Solution:

1. Set up automated dosing of "Bio" into septic tanks to accelerate the biological breakdown of effluent prior to release. Powder coated cabinet anchored to septic slab used to house product and dosing pump.
2. Effluent ponds surface sprayed with "Bio".
3. Depending on water tests aeration may be installed to enhance biological activity.
4. Future plans to install rainwater tanks to harvest water from large roof areas to be used in flushing of urinals and toilets. (Awaiting funding approval)

Results:

1. immediate reduction in odours.
2. Algae has noticeably lessened after 3 weeks.



Automated Septic dosing



Onsite effluent water ponds