



Sludge dewatering beds using Premier Base Patented technology. Reducing sludge water volumes from conventional treatment plants by 90%.

synopsis:

General savings for raw sewage treatment and further transport of sludge, for a population of 10,000 people using 10 drying beds, against traditional settlement methods, would be in the region of \$536,000 per year.

Note: Tanks can be stacked if space is limited.

Initial installation and commissioning costs for 10 settlement beds would be in the region of \$428,000.

A payback period of 9 months can be achieved, with a first year saving of \$108,000. Further savings per year would be approximately \$536,000.

Where the savings come from, using this innovative process, is by reducing the water content of the sludge by a further 90%, thus reducing the sludge volume by 90%. The cost of sludge transport for further processing is thus reduced by 90%.

Additional savings are generated as volumes of sludge to be incinerated are reduced by 92%, with 90% less water content, generating further power saving.

For example, a sewage treatment plant operating at Two Mile Borris in Tipperary Ireland, servicing a population of 700 people, before installation of a settlement bed, over a period of 12 months required the sewage sludge tank to be emptied 156 times at 15 cubic meters per load, totalling 2340 cubic meters of sludge.

Now with one Premier Base dewatering bed installed, over a period of 12 months, it required the sewage settlement bed to be emptied 12 times, at 15 cubic meters per load, totalling 180 cubic meters of sludge.

Where a conventional sewage treatment plant is at maximum or above its capacity, to treat the volumes of sewage to be processed, installing these drying beds would provide additional treatment capacity and provide a viable cost saving solution to the problem.

This is an environment friendly process; CO₂ emissions are reduced to nil.

Chemical treatment costs are reduced close to nil.

There is no smell from the treatment of sludge using this process.

There will be no fat residue in the processed sludge.

Harmful bacteria are eliminated from the sludge by the exothermic reaction generated by the process.

The water removed from the sludge by this process needs very little further treatment before being safe to release into the environment.

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NB: Typical cost for disposal Euro 50/ Ton, 36 tons per load. Example; Pre settlement bed 50 loads per year, after settlement bed installed, 2 loads per year.