Case Study: Village of Leaf River, Illinois

Sludge Production Decreases 50% with GelPac Use

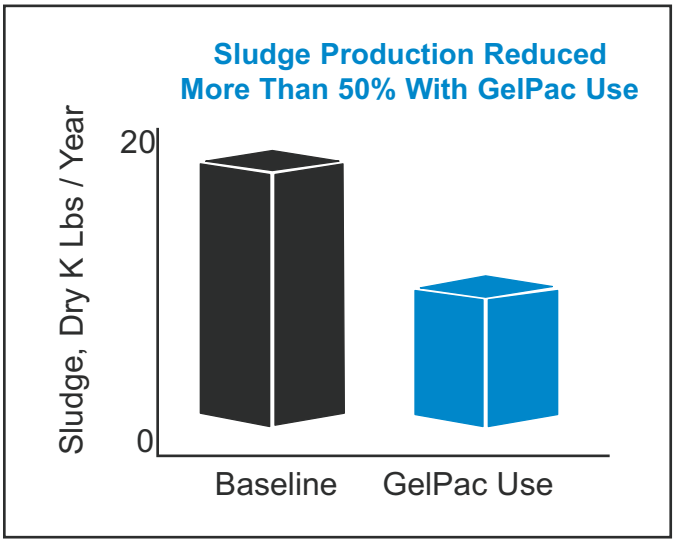
General Environmental Science.....Leadership in Wastewater Biotechnology Since 1974

The Village of Leaf River, Illinois wastewater treatment plant (WWTP) is a 50,000 gpd facility with Imhoff tanks followed by trickling filters. Plant effluent BOD and SS historically ranged from 20 to 40 ppm. Typical sludge production was about 95,000 gallons per year of 2.0% to 3.0% solids.

Mr. Carl Siefken, plant operator, started GelPac use in June, 1991. The primary application goal was to reduce sludge production. Secondary goals were to lower final effluent levels of BOD, SS, and ammonia.

Mr. Siefken noted improvement in all final effluent parameters since GelPac use began. Effluent BOD and SS have remained comfortably below 20 ppm, and the ammonia removal has improved by 33%. However, the greatest GelPac benefit has been reduced sludge production.

Since GelPac use began, annual sludge production has been reduced from about 25,000 to about 10,000 dry lbs. With sludge dewatering and disposal costs cut more than 50%, this plant saves about 4 dollars for every dollar spent on GelPacs.



Carl Siefken, Operator...
" While GelPacs have helped the plant in many ways, the sludge reduction is the most dramatic."

GES GelPac and LLMO products are used in small and large wastewater treatment plants worldwide for:

1. Improved nitrification,
2. Better effluent BOD and SS,
3. Reduced sludge production,
4. Grease reduction.

For more information on a GES solution designed for your needs, contact your authorized representative or contact GES at the number below.

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