

CASE STUDY

Application:

- ***Small Waste Water Treatment Plant – Michigan***
- ***Growing Village with 886 Population per 2000 census***
- ***Nominal 30,000 Gallon Digester Capacity***

Material:

- Aerobically Digested Sludge
- 1.5 – 2% Solids, Alum Treated

Problems & Challenges:

- The Dated Plant Design uses Drying Beds that are too small and do not work in all weather.
- Labor and Equipment Cost of Operating Drying Beds (when they could be operated)
- Sludge Build Up in the Digester which can lead to noncompliant discharges and DEQ fines.
- Other Dewatering Solutions (I.E. Sludge Box) did not perform to expectations
- Plant Upgrades still in the Design Stage, Needed a Solution Now

Solution: Pilot Testing, Equipment and Support from Bright Technologies

Monthly Onsite Contract Dewatering from Bright Technologies

- Bright Technologies negotiated the Solid Waste Hauler and Landfill Fees
- Bright Technologies pays the Solid Waste Hauler and Landfill
- The customer pays one monthly bill for this service.

Statistics

- Only one day per month required to process with a .8 Meter Trailer Mounted Belt Filter Press
- Plant Effluent Water used for Belt Wash (Pump Provided by Bright Tech)
- Belt Press Effluent Returned to Head Works of WWTP
- 30,000+ Gallons of Sludge = (1) 20 Cubic Yard Container of Dewatered Sludge

Results:

- ***No Capitol Equipment Costs***
- ***Plant Operations are Cleaner***
- ***Labor Costs and Equipment Associated with Drying Beds Not Required***
- ***Noncompliant Discharges (and Fines) Avoided***