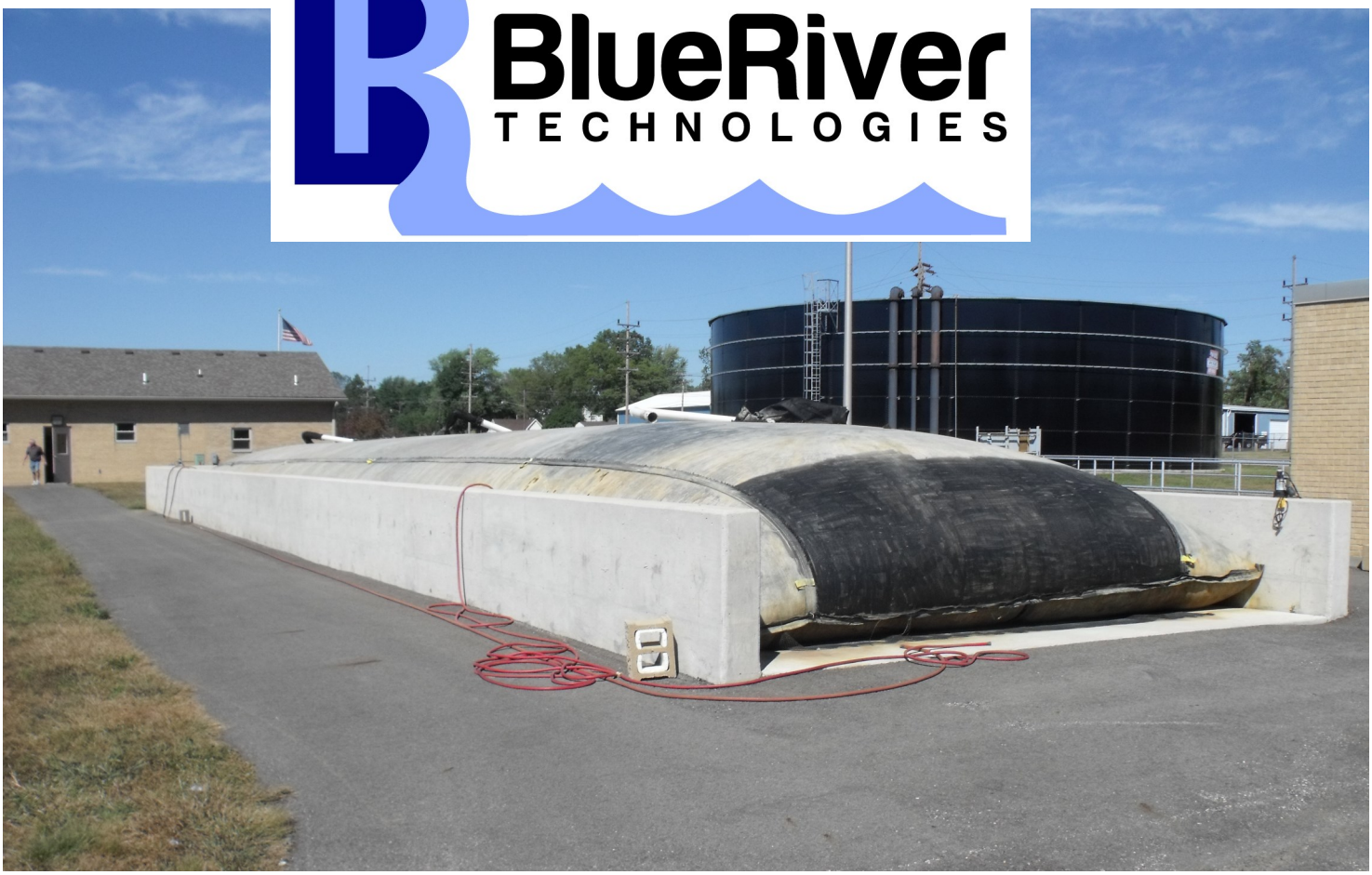
Geotextile Ground Bag Dewatering System

BlueRiver TECHNOLOGIES



The Ground Bag, or Bed Bag Geotextile Dewatering system is used for larger plants that need the economy of the larger bags. These bags are typically used in 30 or 45 foot circumferences in lengths of from 50 to 100 feet. Sometimes the 60 foot circumference bags can be used and longer lengths as well. These bags can hold many more gallons and give the larger plants the option of loading out the solids to be disposed of at a local landfill or the solids can be land applied with slinger or manure spreaders. A 45' X 100' long ground bag can hold up to 1 million gallons of waste activated sludge. When the bags are used for land application of the dewatered solids these bags offer the huge advantage of the solids being applied during what is often a very short window of opportunity in the fall after crops are removed from the fields and in the spring prior to planting. This can often make the difference between a waste water treatment plant being able to use land application as an option or paying a large amount of their budget in land fill fees.

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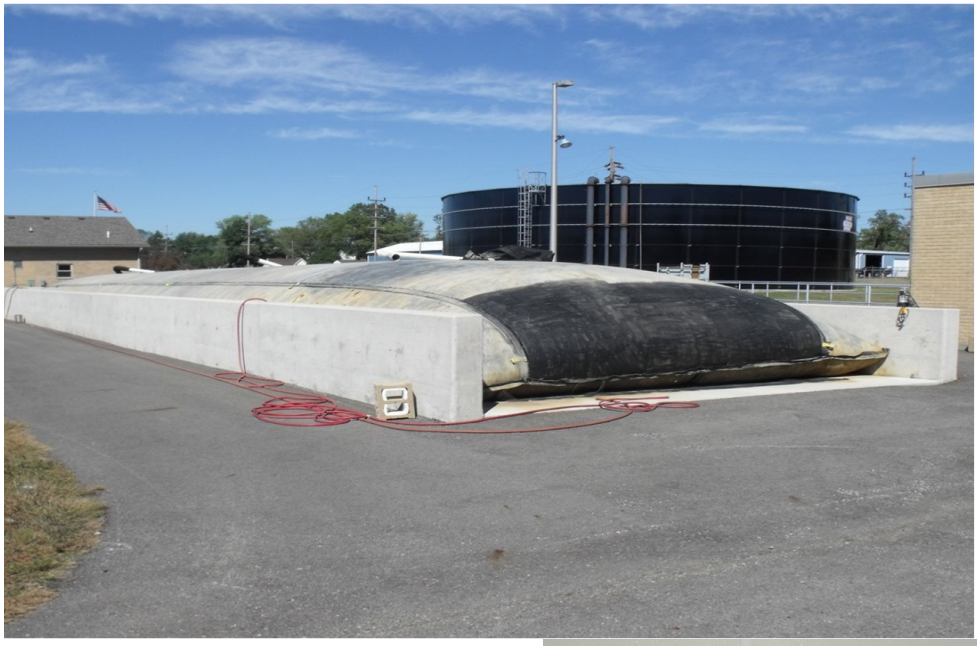
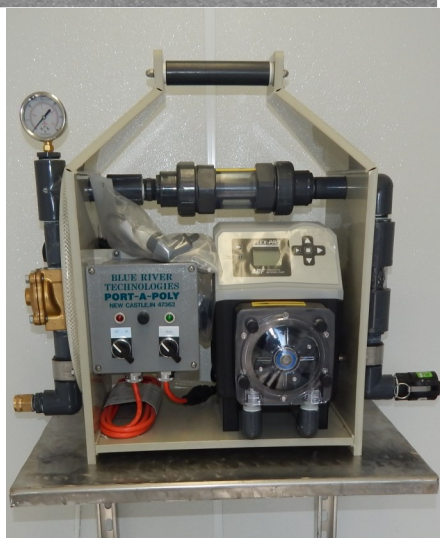
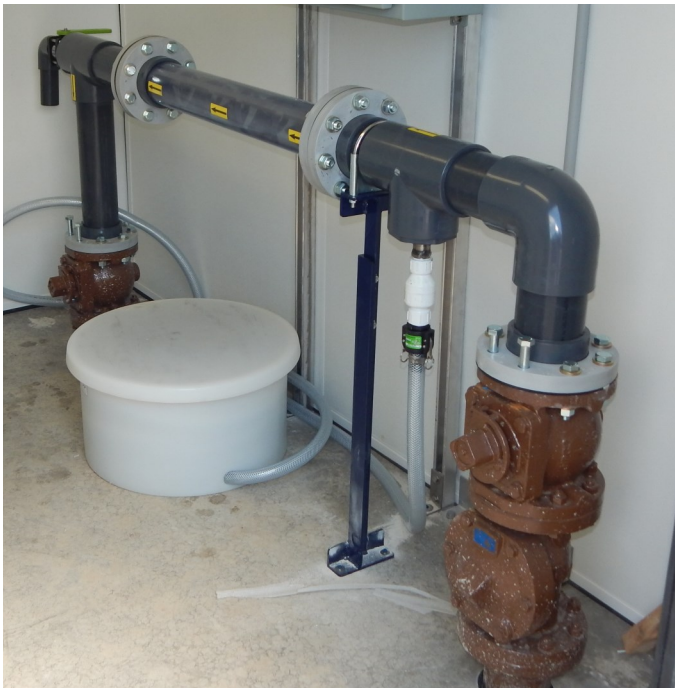
When installing the ground bag system many times the plant will build a concrete dewatering bunker such as this one. The floor sloops from front to bag and a gravity drain at the rear of the bunker returns the effluent to the headworks. A reusable drainage netting is placed under the bag to provide an airspace to help the dewatering.



A Blue River Technologies Port-A-Poly sits on a shelf just inside the building adjacent to the dewatering pad, or in the fiberglass building. The sludge is pumped from the digester over and into the chemical make down area. Usually the sludge comes up thru the floor, Sometimes a plug valve is installed on the inlet end of the flocculator. Polymer is pumped over and into the piping assembly just before the sludge enters the flocculator. The sludge passes thru the flocculator and then travels down and over to the dewatering pad standpipes.





The hard piped flocculator assembly can be set up with a plug valve, and in some cases a flow meter will be installed to allow the operator to monitor flow rates and total flow thru the system. This allows very accurate record keeping of total gallons wasted per day thru the system.

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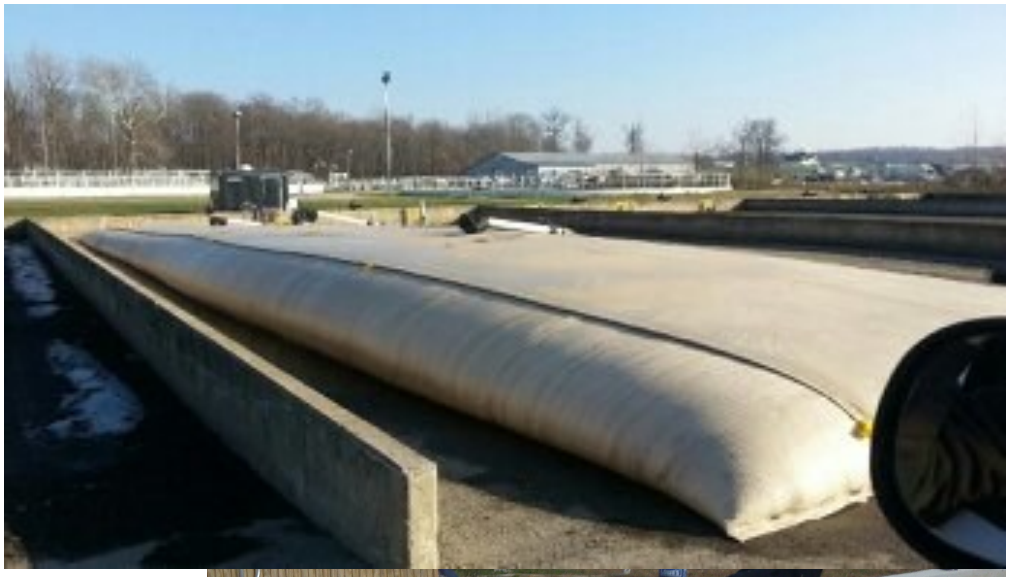
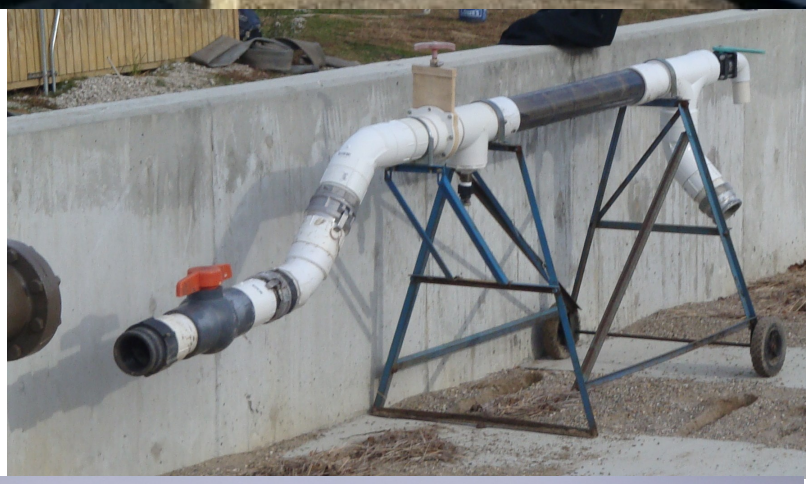
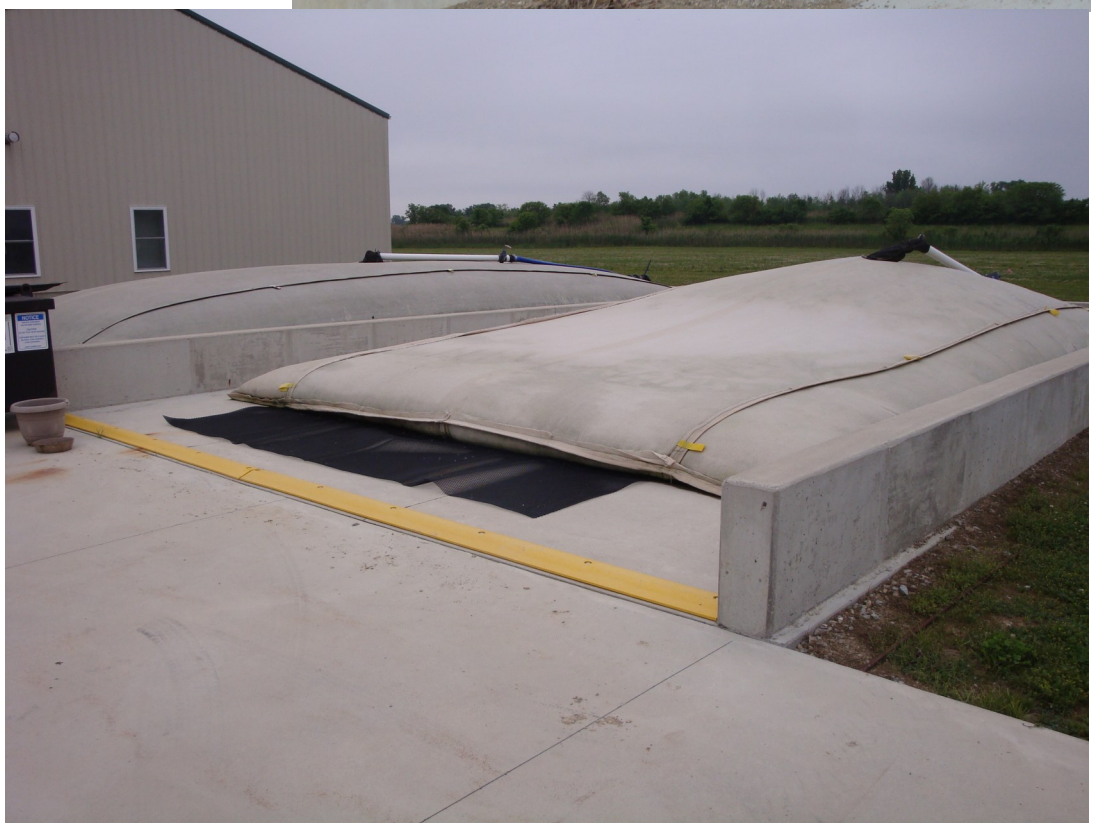
Ground or bed bags can also be used very successfully with existing sand drying beds. This choice gives the plant the opportunity to put many more thousands of gallons of sludge on their beds with very little capitol expense.



When setting up the ground bag system with existing drying beds many times the plant will use the portable flocculator and hook it up to the drying bed sludge standpipe. The flocculator can be moved in and out and hooked up with flat hoses for pumping into the bags.



This plant uses the 45 foot circumference X 50 feet long bed bag. These bags are installed the these concrete bunkers. The polymer system and hard piped flocculator is installed in the building adjacent to the drying beds. Two bags will give the plant enough storage for one year.



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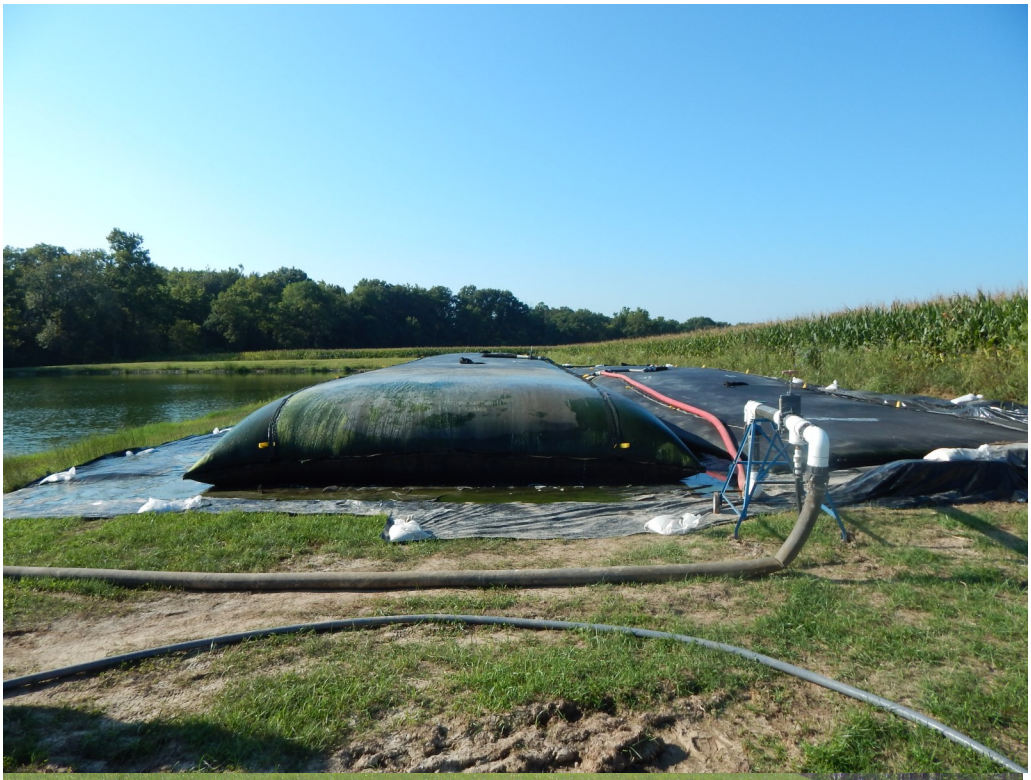
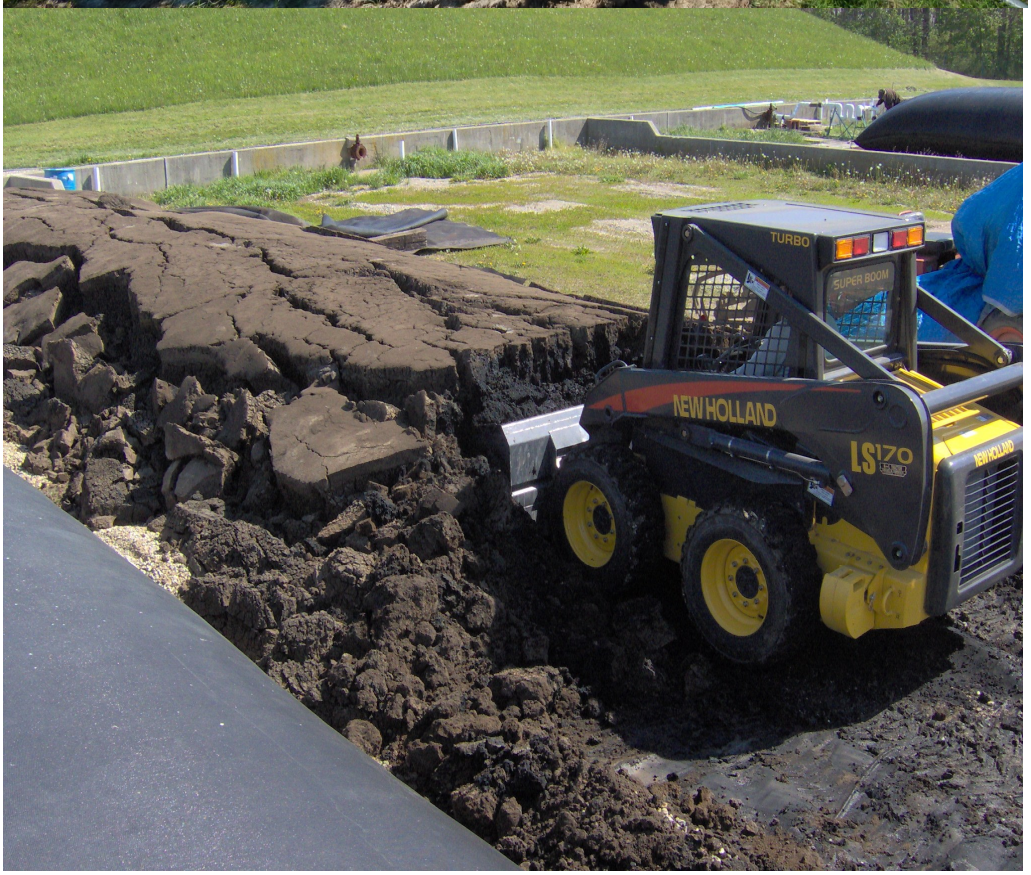
Ground or bed bags are also used to dewater solids from existing waste water plant lagoons. The plant can bring in some type of dredge and pump the solids from the bottom of the lagoon up and into the bags channeling the effluent back into the lagoon. In these applications the portable flocculator and polymer mixing systems are set up along side the bag laydown area.



The Blue River Technologies Ground or Bed bag system is an excellent choice for those plants who have large amounts of waste water sludge that needs to be dewatered and disposed of. These bags are custom made to fit each plants needs and offer an economy of scale that can reduce the cost per gallon to dispose of their sludge.



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