WaterSolve LLC

Your Water, Wastewater, & Materials Dewatering Partner

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Biosolids Dewatering During Winter Months

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Winter operations filling and dewatering Geotube® unit.

Objective:

The Idaho Wastewater Treatment plant was using a hanging bag system at their plant. It was very labor intensive and the city wanted to find an easier and less labor intensive way to dewater their biosolids. Clearwater Dewatering of Nampa, Idaho the local agent for WaterSolve LLC, worked with the city to solve their problem. The solids would be dewatered and then hauled to a landfill for final disposal by the city. The project was started in January 2009. They had an existing drying bed to put the Geotube® unit in. A unit was built to fit into the existing drying bed.

Geotube® container sizing:

Geotube® Containers are manufactured from high strength polypropylene fabric and designed to allow effluent water to escape through the pores of the fabric while retaining the chemically conditioned solids. The containment location selected at the site allowed for the 30 by 11.5 Geotube® unit to be installed.

TENCATE™
materials that make a difference

The result:

Clearwater Dewatering trained the city Wastewater Treatment Plant personnel and superintendent in the proper procedures to install and fill the Geotube® unit. The city was taught how to adjust their polymer dosage and to test the mixing rate before going into the Geotube® unit. The city has a digester tank to hold their solids in and transfer that into the Geotube® units two or three times a week. After the Geotube® units are filled and dewatered they are cut open and hauled to a landfill for final disposal.