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*Montana Municipality looks to WaterSolve to Refine their Biosolids Dewatering*

**Objective:**

This Montana Wastewater Treatment Plant was overwhelmed with 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 June 2010.

**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 65' by 186' Geotube® units to be installed.

**WaterSolve's Chemical Conditioning:**

The city rented a polymer mixing system from Wa-

terSolve LLC and used Solve 137 from Watersolve LLC to flocculate the sludge before going into the unit. They built a containment pad and used the liner to prevent the effluent from contaminating the ground and returned filtrate water to the plants head works. The city put the Geotube® units in the containment area.

**The Result:**

Clearwater Dewatering trained the city Wastewater Treatment Plant personnel and Superintendent in the proper procedures to install, fill, and dewater the Geotube® units. The city was taught how to adjust their polymer dosage and to test the mixing rate before going into the unit. The city had to dewater a larger amount of biosolids than normal to bring the plant back into permit limits. After the Geotube® units are filled and dewatered, they are cut open and hauled to a landfill for final disposal.



Geotube® container laid out on top of liner and GFF mat.



Laying out GFF mat on top of liner in containment area.



Using WaterSolve's WSLP 2400 unit for chemical addition and Solve 137.



**Treatment Products,  
 Solutions & Services  
 Through Science,  
 Engineering & Management**

*Location:* **Montana**  
*Products:* TenCate™ Geotube® Containers  
 Solve 137- Emulsion  
*Equipment:* WSLP-2400 Polymer Make-down Unit