

VERNON COUNTY LANDFILL

Viroqua, Wisconsin



DESCRIPTION:

CWE was selected by the Vernon County Solid Waste Board as the design engineer for the siting and development of a new municipal solid waste disposal facility. CWE assisted the Waste Board in selecting an approved location and aided in the land acquisition for the 158-acre site. Following completion and approval of the feasibility study, a Plan of Operation for a balefill was submitted and approved by the WDNR. This balefill was the first approved site under the new NR 500 regulations.



Choosing to construct a balefill was influenced in large part by the desire to lessen nuisance conditions and maximizing available resources. Baling at the on-site waste processing helps minimize loose debris and contributes to overall neatness of operation. Both waste and recyclables are baled. Bailing the waste also reduces the amount of daily cover required and also eliminates the need for a compactor.



To accommodate the flow of demolition waste, a demolition site was also designed and constructed at the site. The site development included the reconstruction of a local town road and the construction of an access road to serve the demolition facility.

In 2004, CWE completed a Feasibility and Plan of Operation Reports for a vertical expansion. The vertical expansion will add 275,000 cubic yards to the previously approved balefill volume, bringing the total air space capacity to 590,000 cubic yards. The vertical expansion is expected to extend the balefill life by approximately eight years.

We currently provide the monitoring services for the 10-acre, 325,000 cu. yd. active facility. The site has 19 groundwater monitoring wells of which four are designated as subtitle D wells. The monitoring frequency was reduced to a semi-annual basis for the 2000 monitoring year. Two nearby private water supply wells are also sampled semi-annually. A storm-water sedimentation basin sample is collected annually, as is a leachate for VOCs along with the typical leachate parameters. CWE also monitors leachate, soil vapors, water in the sedimentation basin, and overall landfill condition.