

*New bathhouse featuring  
Clivus composting system  
and  
Nepon foam-flush toilets  
set to open  
Summer of 2012*

**Commercial**

**Center Church Camp Asto Wamah**  
Columbia, CT

**Profile**

- 100-year old camp in need of waste treatment system upgrade
- 120 campers and staff
- Lakefront property
- Need for expanded restroom facilities

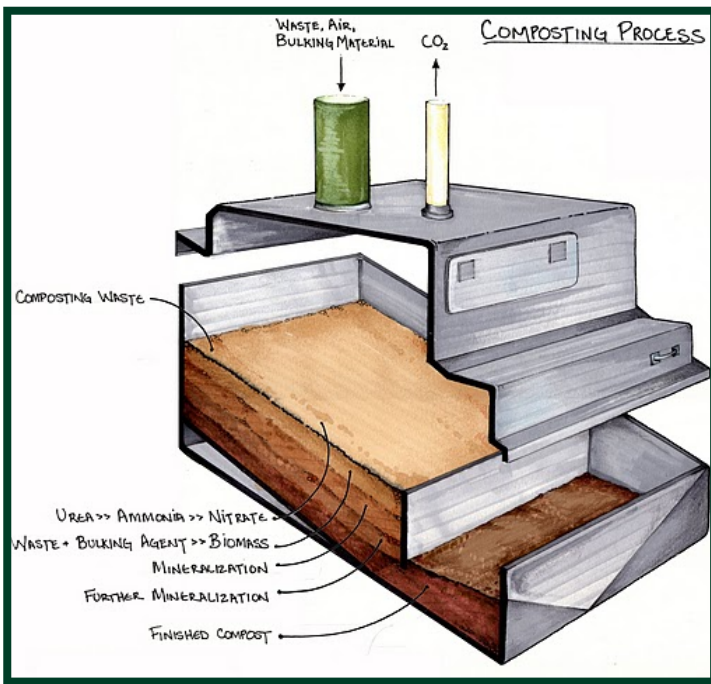
**Challenge**

- Add additional facilities without building another full sized septic system
- Reduce stress on existing septic system
- Prevent nutrients from wastewater from affecting Columbia Lake
- Reduce overall GPD for the camp
- Minimize site disturbance at the site

**Solution**

- Installed Clivus composting system with Nepon foam-flush toilets and flushless urinals
- Reduced toilet-water usage in new bathrooms by 97%
- Reduced solid waste by 95%
- Composter effluent containing nitrogen and phosphorous is removed from the site
- Extended life of existing conventional septic system





Clivus composting systems reduce solid waste by 95%; 3-ounce foam-flush toilets use 97% less water than conventional toilets.

The building was designed to utilize the topography of the site. By building into the hillside it was possible to reduce excavation and place the basement at "ground" level for easy access. Also, overall site disturbance was minimized by a much smaller sized soil absorption system for greywater only.



Due to the close proximity of the bathhouse to Columbia Lake it was necessary to eliminate all nitrogen discharge from toilets. Effluent from the composters is sent to a storage tank from where it is taken off site. Greywater from sinks is sent to a reduced sized soil absorption system.

