

Put the Mound

in the Ground



NoMound® System technology eliminates unsightly mounds while providing wastewater management for high groundwater building sites.

The **NoMOUND® SYSTEM** is a patented technology that allows conventional onsite systems to be used at sites with a high water table without building an aboveground sand mound. The small “footprint” and ability to work underneath pavement (driveway or parking areas) are also popular reasons to select a NoMound System.

About the Technology

The NoMound System (US Patent Nos. 5,435,666 and 5,827,010) uses air pressure to control and maintain the groundwater level below the drainfield. This allows the NoMound System drainfield to function as intended at high water table sites to meet the regulatory separation required between the bottom of the drainfield and the water table.

The air supply functions to lower the water table inside the NoMound System and keeps the drainfield aerobic just like conventional systems. Treatment mechanisms and loading rates in the NoMound System are identical to other conventional soil-based onsite systems in the same location.

The drainfield and underlying soil is enclosed by a geomembrane installed within the soil above the drainfield and on all sides except the bottom. The effluent drains by gravity; and, after treatment, mixes with the groundwater below – just like conventional systems and aboveground mounds. The first system in Florida has been in service since March 1999.

Frequently Asked Questions

1. How does the NoMound® System eliminate the mound?

In sand mound systems, the drainfield has to be built up to create the required separation between the drainfield and groundwater. The NoMound System works below grade to “push down” the water table to create the required separation distance. The need for a mound is eliminated.

A small-wattage pump delivers air into a below ground geomembrane “barrier system” that has been constructed around the sides and top of the drainfield of a conventional onsite system. As air is pumped into the enclosure at a slight positive pressure (less than 2 psig), the high water table is lowered and the desired thickness of unsaturated soil for treatment is created. Wastewater effluent from the septic tank or ATU is pumped to the drainfield, and the conventional absorption bed’s physical and biological processes are maintained.

2. How do you know the NoMOUND® SYSTEM is working?

Each installation includes a 2-inch diameter well-point with a float that responds to the groundwater level within the system directly beneath the drainfield. A signal alerts the owner of potential problems. This feature monitors the separation distance 24/7/365.

3. What sites are appropriate for a NoMOUND® SYSTEM?

Properties with high groundwater tables can benefit from NoMound System below-grade technology. The system is not suitable where dense clay and bedrock are limiting factors.



The NoMOUND® SYSTEM Features and Benefits

- *No above ground features to erode*
- *Works with any effluent distribution system*
- *Controls treatment zone depth*
- *Can operate even if the site is intermittently flooded*
- *Can be placed below impervious surfaces such as driveways or parking areas*
- *Smaller “footprint” provides better site development flexibility*
- *Is more aesthetically pleasing*