

## Ultra-Archaea<sup>®</sup> for Septic Systems

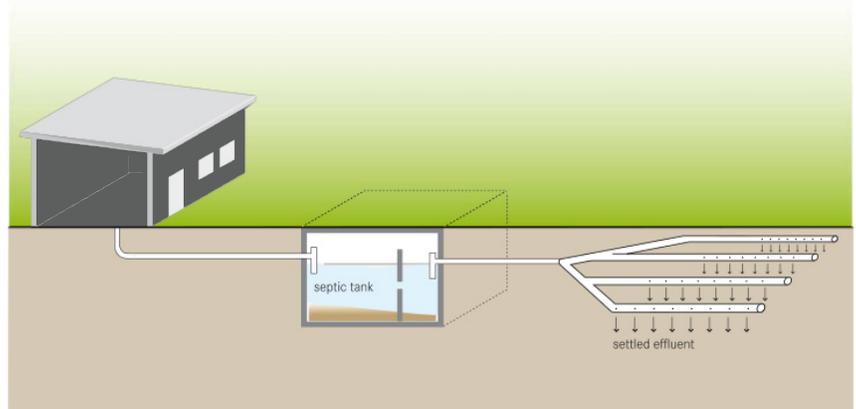
Modern septic systems have two main components, a septic tank and a leaching field. Commercial systems may have grease traps. There are variations; such as systems with pumps and dosing schemes however the septic tank and leaching field are the primary components, that treat the waste.

The septic tank receives the wastewater from the drains and slows the velocity of the water, to allow solids heavier than water to settle and solids lighter than water to float (fats, oils and grease). Natural microbes begin changing the organic material into

water-soluble fatty acids, carbon dioxide and water. Water exits the tank below the floating material and above the settling solids. The water flows to the leaching field. Sludge builds up in the septic tank and the tank must be pumped periodically; if not, scum may overflow into the leaching field.

The leaching field further treats the wastewater. If the scum layer overflows the septic tank outlet, the leaching field may quickly become fouled with fats and greases, plugging it, eventually requiring replacement.

Ultra-Archaea is the solution to keeping septic tanks and leaching fields working properly. Ultra-Archaea are naturally occurring, ancient microbes cultivated from hot springs and volcanoes. Ultra-Archaea adjust to harsh environments and efficiently convert any organic waste to beneficial water-soluble fatty acids (fertilizer), carbon dioxide and water. Fatty acids do not plug leaching fields.



Pictured is a septic tank that had not been pumped for over three years. Normally floating sludge over an inch thick would be present. The tank was only treated for one year with 1 lb. of Ultra-Archaea every month. There is very little bottom sludge. The bubbles floating on the top are soap suds. The effluent leaving the septic tank is clear indicating that the septic tank is functioning properly.

Ultra-Archaea are approved for use in septic systems by the Massachusetts Department of Environmental Protection and for use in wastewater treatment systems and grease traps by the Massachusetts Water Resources Authority.