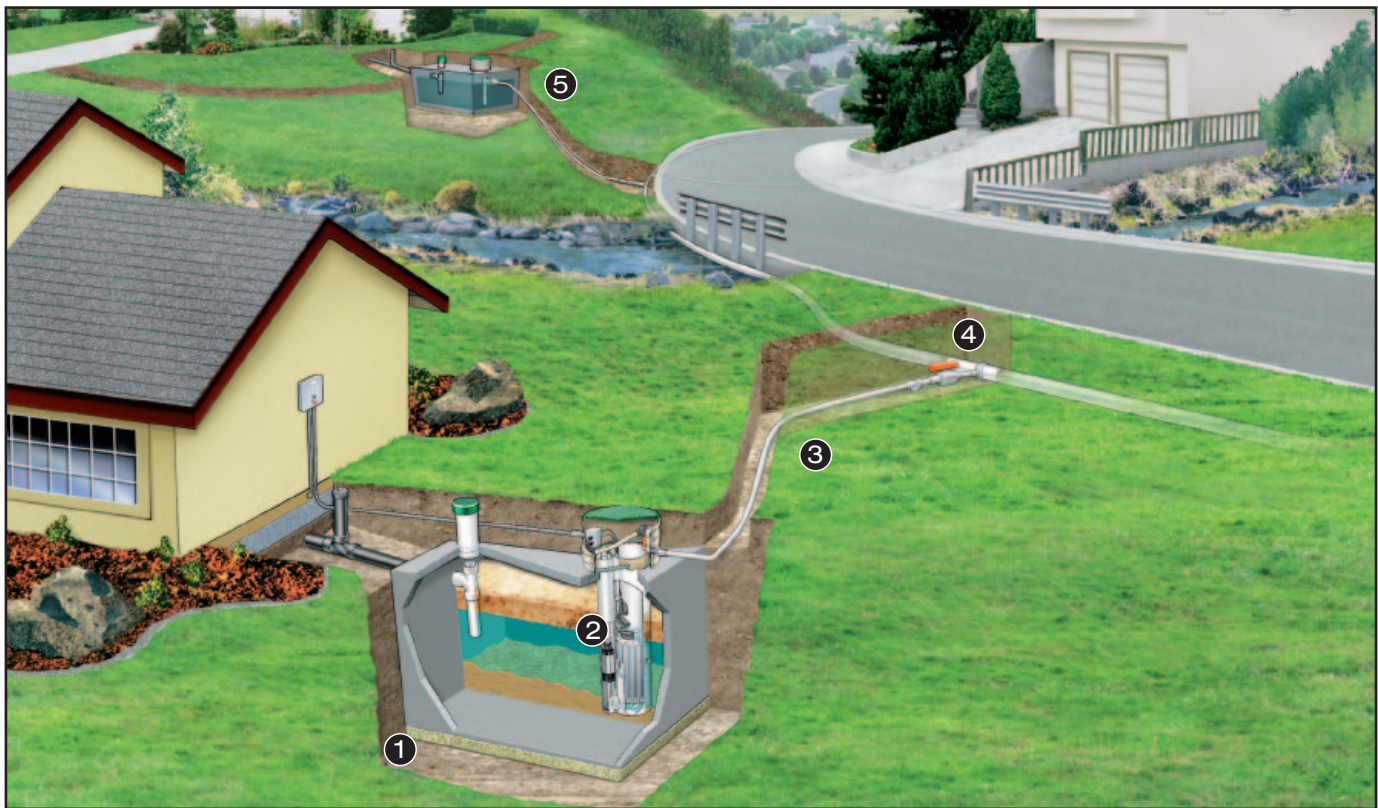


HOW IT WORKS:

Orenco® Effluent-Only Sewer to AdvanTex® Treatment System

With an Orenco® Effluent Sewer, every lot in a community or subdivision includes an on-lot tank for collecting household wastewater. (See illustration, below.)

Solids remain in the tank, for passive, natural treatment. Then the filtered effluent is discharged (by either pump or gravity) through shallowly-buried, small-diameter collection lines that follow the contour of the land. The filtered effluent then flows to a nearby AdvanTex® Treatment System (See illustration, Side B.)



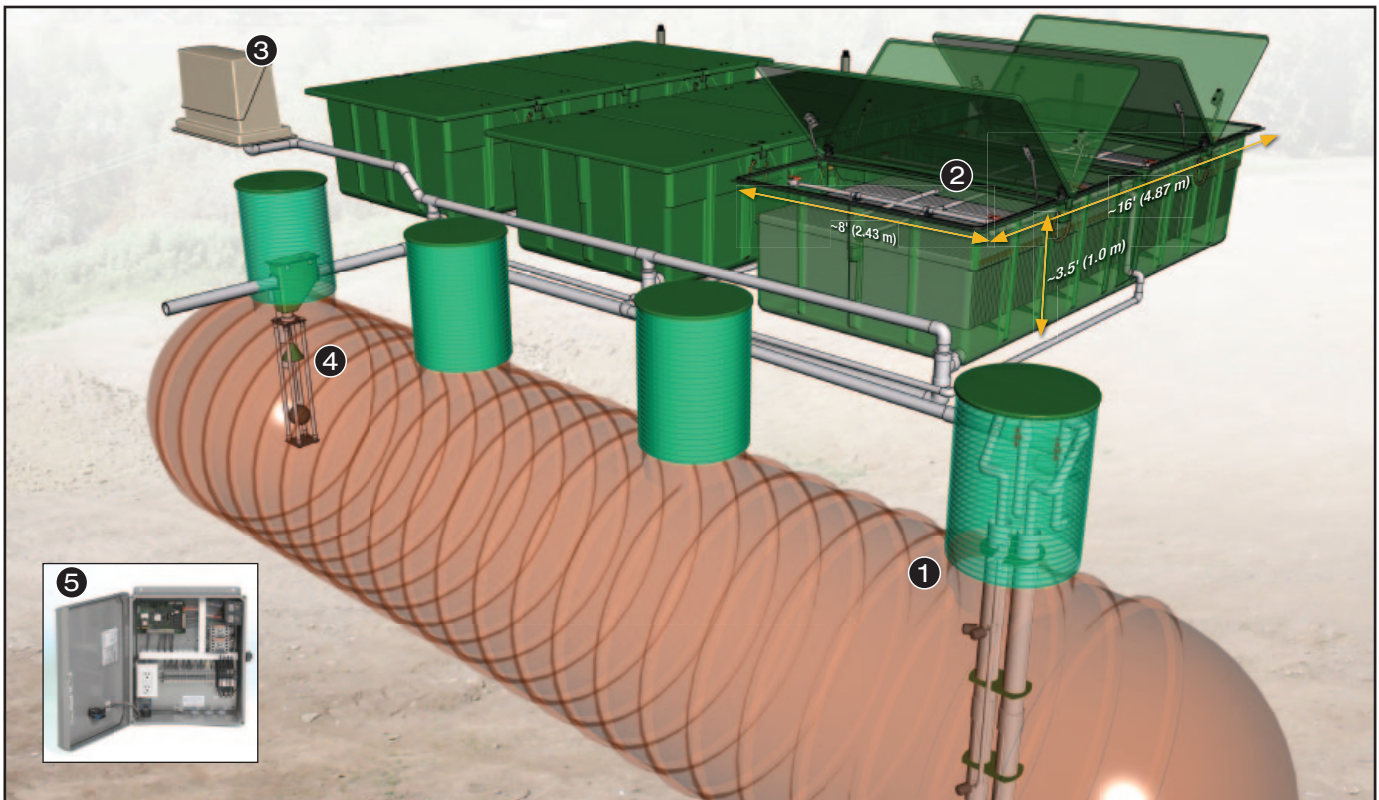
- 1 Watertight tanks provide primary treatment, so only liquids are conveyed to the treatment plant. With proper use, tanks can go 8-12 years between pump-outs.
- 2 Our patented Biotube® Pump Vault filters out solids, and our lightweight, non-corroding pumps last more than 25 years.
- 3 One-inch (25-mm) diameter service lines can be easily installed with a trencher.
- 4 Small-diameter main lines follow the contour of the ground, saving excavation costs. No expensive manholes or lift stations are required.
- 5 Filtered effluent is conveyed by gravity from homes at higher elevations, so no pump is typically required.

HOW IT WORKS:

Orenco® Effluent-Only Sewer to AdvanTex® Treatment System

AdvanTex Treatment Systems are an award-winning¹, low-cost, and low-maintenance technology. They can be installed in-ground or partially bermed, for a very low profile. Larger units can be purchased with a catwalk (for operator ease of servicing) and set above-ground. Filtered effluent from each property's on-lot tank is conveyed through shallowly-buried, small diameter collection lines to a recirc tank at the AdvanTex treatment facility.

¹ To see awards video, go to: <http://www.orenco.com/videos/orenco/AwardsPlayer.html>



- 1** The recirc tank includes a flow inducer with high-head effluent pumps (which are controlled by a panel). Then the liquid is pumped to the AdvanTex pod in small, even doses.
- 2** AdvanTex pods include hanging sheets of textile media on which microorganisms grow and digest waste, naturally.
- 3** The vent fan assembly pulls air through the AdvanTex pod to maintain an aerobic environment, while using very little energy.
- 4** The recirculating splitter valve sends the liquid back through the treatment process again when tank levels are low and discharges it when tank levels are high.
- 5** AdvanTex systems use a remote telemetry control panel, which allows operators to check on the system from office or home, without traveling to the site. The panel's dedicated phone line allows real-time remote adjustments and control.