

## Wastewater Collection Systems



Delta Environmental Products Wastewater Collection is the first step of a complete decentralized system. Low Pressure Wastewater Collection is a proven and innovative technology that installs quickly, works uphill as well as downhill easily, and reduces investment costs.

Delta Environmental Products Wastewater Collection Systems collect, grind and pump wastewater from each source. Every home or business in the development has a buried collection tank that collects wastewater. When the wastewater reaches a determined level, a switch activates a grinder pump that converts the tank contents into a slurry. This slurry is then pumped to the treatment phase via a small-diameter pipe.

Unlike conventional gravity-fed sewer systems, there are no large concrete pipes to bury or worries about elevation. Instead, all wastewater is pumped through small-diameter plastic pipes that are buried in narrow trenches or installed with horizontal drilling equipment.

The system is water tight to avoid the problems of storm water infiltration relating to EPA regulations, making it ideal for use in areas with high water tables.

### 1 SYSTEM



SAVE UP TO 50% on capital costs with LPS vs. Gravity

#### Complete Low Pressure Sewer Systems

- Flex Hose or Rail System Available
- Simplex and Duplex Systems Available
- Multiple Basin Diameters and Basin Depths Available
- Extensive Retrofit Kit Offering

#### Level Control Options

- Pressure Activated
- Float Activated

#### Superior Control Panel Options

- Remote Alarm with Battery Back-Up
- Digital Display Center
- Seal Fail Alarm
- Thermal Overload Alarm
- Generator Receptacle

#### Submersible Grinder Pumps

- Semi-Positive Displacement
- Single Seal Centrifugal
- Dual Seal Centrifugal
- Dual Seal Centrifugal Explosion-Proof
- Oil Filled Motors
- Cutter Designs Exceeding 10,000 Cuts Per Second
- UL/CSA Listed Submersible Grinder Pumps

#### Customer Focused

- Dedicated Sales, Marketing and Engineering Team
- Leading Distribution
- Competitive Financing
- Certified LPS Technicians
- Extensive Product Offering
- Streamlined Production Environment
- Informative Training Center
- Advanced Testing Laboratory
- 24/7 Service
- Extended Warranty Programs
- Hydraulic System Design
- Remote Monitoring



#### Natural process wastewater treatment

When waste enters a stream, it becomes food for bacteria present in the water. As long as there is sufficient oxygen in the stream, the bacteria consumes all organic material over time.

Delta Environmental Products uses the same process to break down domestic wastewater, only it does it faster and more efficiently. Self-contained Delta Whitewater, ECOPOD and BIOPOD systems receive wastewater from

individual homes or businesses and process it through a submerged fixed film process to purify the wastewater by the oxidation of organic waste using naturally occurring bacteria. In this oxygen-rich environment, a colony of bacteria, called a biomass, develops and is capable of digesting biodegradable waste into carbon dioxide and water. The result is a clear and odor-free effluent.