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Q: Who are we?



e||ne



There's no limit
to where we can go.

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Q: What is a Pressure Sewer System? - LPS



A: It's the most widely used and accepted alternative sewage collection system today. The only one that requires minimal environmental disruption, is designed to solve difficult sewer applications, and is a proven and reliable technology, so you truly can....

“Sewer Anywhere and Save”.

Q: What are the advantages of pressure sewer?

◆ High head capability

- 185 feet TDH Sewer anywhere you need
- Most flexibility of any system available
- Designed to meet a variety of homeowner needs.

◆ Ease of installation

- Minimal disruption follows the grade of the land.

◆ No preventive maintenance

- No septic tanks or filters needed.

◆ Easier final treatment

- No head-works needed
- No Inflow or Infiltration
- Maintains available C:N Ratios for better treatment

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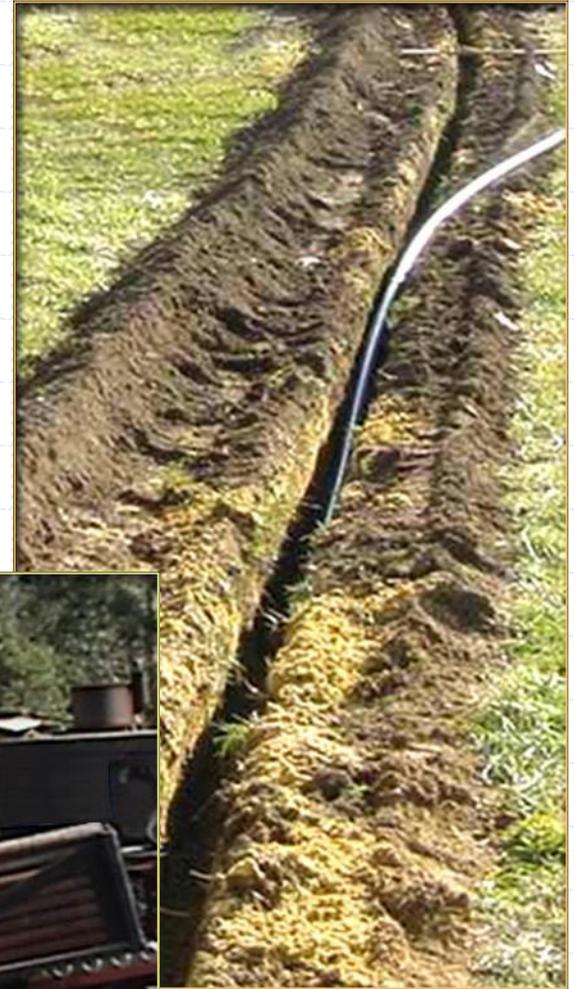
Q: When would you use a LPS System?



A: Any time it's undesirable to dig deep trenches. Such as Communities with preexisting infrastructure, Flat or Undulating Terrain, Rocky Soil Condition, or High Ground water locations.

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Q: How is it installed?





◆ Small Diameter Pipe Eliminates:

- Road closings
- Detours
- Expensive dewatering
- Large, deep trenches
- Utility replacement



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Q: Is this a new technology?

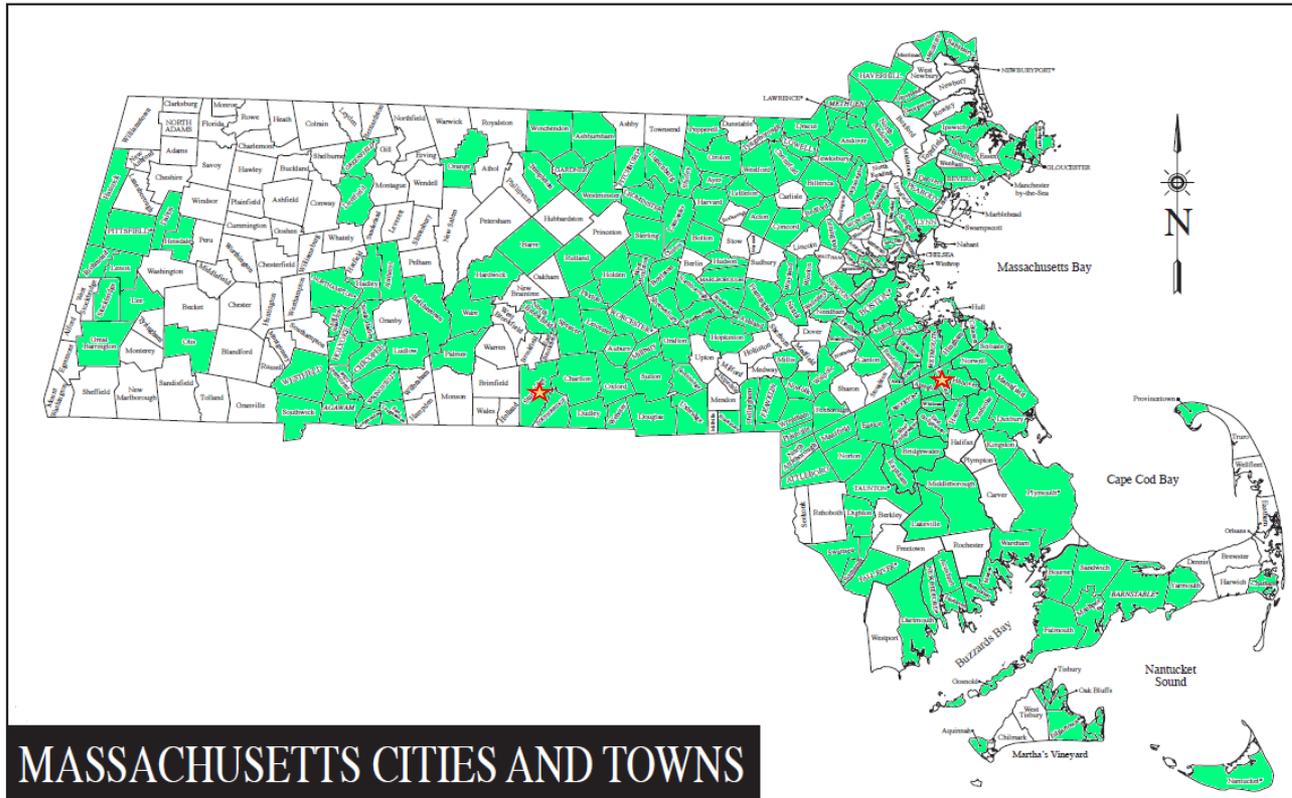
A: In 1965 General Electric was Sub-contracted to develop a “New Household appliance”. The original design team engineers in 1970 formed the company “Environment One”.

We now have over 45 years of successful operating experience and thousands of installations in 39 countries.



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Q: Where has this system been used?



We are measured by the company we keep; perhaps you know someone that we know?

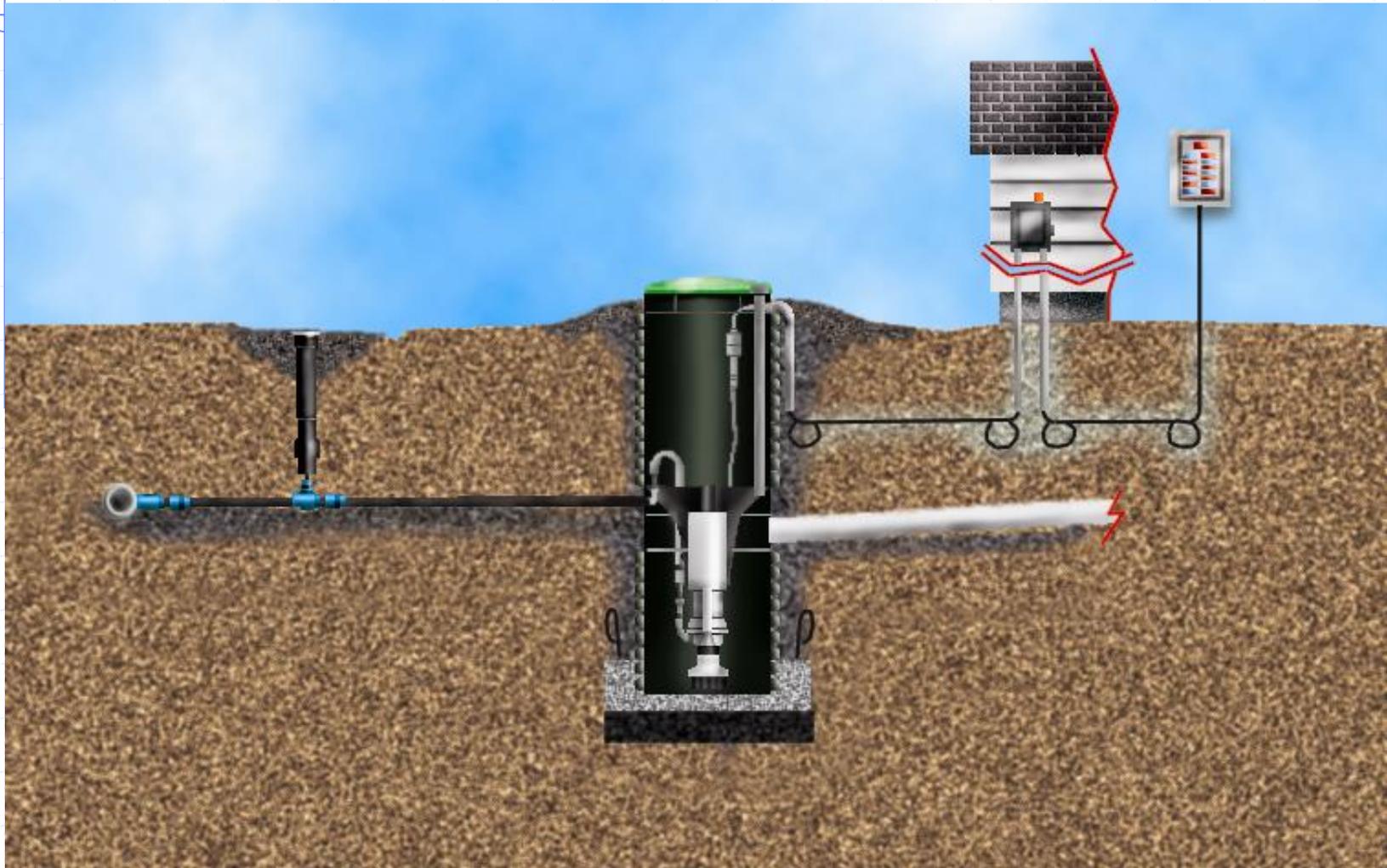
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Q: What does it look like after it's installed?



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Q: What's going on under the ground?



A: Like any other Household “Appliance” periodic maintenance is not required. All pump components used are designed to provide years of trouble free service without maintenance.

Unlike your “Septic System” the storage tank is designed to be self-scouring eliminating the need to clean the tank periodically

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Q: OK but how long will the pump last before it needs repair or replacement?

A: The E|One unit has been sewerer single family homes since 1970. Excellent service records have been kept by many system managers and E|One Corp. The mean time between service calls has proven to be 8 to 10 years. The need for a major rebuild has been proven to be 15 to 20 years.

The local people who stand behind the product are there - 24/7



Q: Can that be proven to be true?

Bruce Evans
Greenfield Township Sewer Authority
Carbondale, Pa
570-222-4888

Greenfield Township is one of the largest and oldest grinder pump low pressure sewer systems in Pennsylvania. The system started installation in 1983 with approximately 280 grinder pump stations. Today, there are approximately 500 grinder pump stations in service. There are an average of 10 to 15 new homes added to the system each year.

We have the dollar figures for the parts that were purchased by Greenfield Twp. Lake for the years 1988 through 1997. They are as follows:

1988	\$12,775.08	1992	\$20,931.58	1996	\$19,500.00
1989	\$10,449.17	1993	\$14,175.10	1997	\$19,800.00
1990	\$7,003.93	1994	\$17,989.00		
1991	\$10,588.79	1995	\$16,806.91		

According to Bruce, an average of 300 man-hours per year, or 25 hours per month, is spent on the pressure sewer system. The labor cost for this time is \$3,156.00 annually.

Parts	\$19,800.00	
Labor	\$3,156.00	
TOTAL	\$22956.00	Approx \$46.00 per pump per year

Q: What is the average yearly cost of electricity to operate a Grinder Pump in the typical family home.

A: A typical single family home will use 200 gpd. The E|One 1hp pump will consume about 16 kwh of electric per month.

At \$0.26/kwh x 16kwh = \$4.16 per month

Appliance	Typical Annual Usage
Air Conditioner	2000
Clothes Dryer	1200
Refrigerator	750
Television	500
E One Grinder Pump	200
Coffee Maker	100
Vacuum Cleaner	45
Clock	17

Q: What happens if there is a power outage?

A: The pump does require electricity to operate. During a power outage water usage in a home drops significantly because the appliances, which account for much of the water we use, are also not working.

The E|One pump design is optimized with storage capacity for such events.

Long term events are easily handled with portable generator connection.



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Q: Does the grinder pump emit any unpleasant odors?



E/One is proud to have the following endorsements on the full station as an assembly & not simply components. This assures the highest level of safety and code compliance.

- ✓UL Under Writers Laboratory
- ✓NSF National Sanitation Foundation
- ✓CSA Canadian Standards Association
- ✓IAPMO International Association of Plumbing and Mechanical Officials
- ✓Countless State and Local Agency Listings
 - ✓Massachusetts State Board of Plumbing Examiners

Q: Will the pump clog or jam?

Table 1- Household Items added to the Pump Basin	NSF 46-1997
Item	Frequency
Toilet tissue, 24 perforated sheets (wetted in test water)	4 times per day, 5 days per week
Facial Tissue	2 per day, 5 days per week
Filter Tip Cigarette	1 per day, 5 days per week
Egg	1 per day, 5 days per week
Paper towel*	1 per day, 5 days per week
Condom*	1 per day, 5 days per week
Sanitary napkin* (wetted in test water)	1 per day, 5 days per week
Chlorine laundry bleach* (8 ounces)	1 per day, 5 days per week
Cotton swab* (plastic stick)	1 per day, 5 days per week
Disposable diaper* (large childrens size)	1 per day, 5 days per week
Tampon* (plastic applicator added separately)	1 per day, 5 days per week
Adhesive bandage* (paper wrapper added separately)	1 per day, 5 days per week
Dental floss (12 inch piece)	1 per day, 5 days per week
Alkali drain cleaner (8 ounces)	1 per week, at random
Handi-wipe	1 per week, at random
Acidic drain cleaner (8 ounces)	1 per week, at random
Liquid animal fat (4 ounces)	1 per week, at random
One pair nylon panty hose (size large)	1 per week, at random
Cloth diaper (wetted in test water)	1 time during test, at random
Toothbrush	1 time during test, at random
Wood pencil	1 time during test, at random
Plastic table utensil	1 time during test, at random
Metal bottle cap	1 time during test, at random
HDPE bottle cap	1 time during test, at random
Metal, toy car (Matchbox or Hotwheels)	1 time during test, at random
Eight ounce drinking glass (crushed)	1 time during test, at random
* Items added separately each day in succession	

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Q: What type of Warranty does E|One unit have

A: Environment One Corporation provides a two year, on site, parts and labor warranty from the date of installation or 27 months from the date of shipment. The warranty is for the entire pump unit (no pass through warranties) and includes parts and service which can be done on site.

Additional Warrantees are Available.

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Q: What did We forget?



A: Engineered to do one job perfectly!

Thank You

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E/One Upgrade After Market
Grinder Pump



Now representing E/One in all Six New England States
Did you buy the wrong pump the first time?

Replace your tired, worn out centrifugal grinder pump with the most reliable product on the market.
The Industry Leader from EONE® is Engineered to Do One Job Perfectly.