Installing Simple Pumped Greywater Systems

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Benefits

• Can irrigate anywhere, including uphill
• Can spread water out over an entire property
• Relatively simple, with minimal maintenance – no filters to clean or replace
• Can irrigate vegetables/raised beds
• Can be built with off-the-shelf components
• Cheaper than high-end proprietary systems
Limitations

• More elaborate installation than gravity-flow
• System itself has a carbon footprint
• More expensive than gravity-flow
• May need to install an electrical outlet
• Possibility of pump failure or other mechanical problems
System Overview
Plumbing and Pump Locations

- Pump Basin (30 gal)
- Greywater out from house (2" ABS)
- 3-port diverter valve
- Blackwater out from house (3" or 4" ABS)
- Sewer lateral to street
- Pumped greywater out to irrigation
- Vent hookup
- Basin overflow to sewer, with backwater valve

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Effluent Pump & Float Switch

Dayton

DAYTON 4HU73
Prepackaged Pump Unit (Sewage Ejector Pump)
Backwater Valve

**DWV Backwater Valve**

**PVC or ABS Solvent Weld Connection**

- Threaded access seals hand tight and allows for easy maintenance and inspection
- Allows unrestricted flow
- 6" backwater valve extensions—use 10" Sch. 40 pipe (not included)
- For GRAVITY FLOW applications only
- Do not install vertically
- CSA certified (B181.1 and B181.2)
- UPC/IAPMO listed

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Auto-Flush
Indexing Valve

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Possible Problems

• These systems can go for years without maintenance
• Pump failure
  – (don’t use filters!)
  – Use a good effluent or sewage pump
  – Float switch getting hung up
• GFI outlet tripping
• Fittings blowing apart due to higher pressure
• Mulch shields filling with mud