To sewer

4" Drip line of plant being watered

2"– 6" Mulch Basin

2" below grade

Visible mulch cover

2" Below grade

Mulch Basin Depth variable depending on site conditions

1.5 feet (minimum) **

Fence line

The main-line tubing should extend into the last mulch shield fully open.

1.5 feet (minimum)**

From washer

1" 3-way valve

1" schedule 40 PVC

2-hole strap

1" male barbed adapter

1" PVC tee

1" male adapter

Hose clamp

PVC to landscape

AAV or auto-vent

1 1/2" female adapter

1/2" x 1" reducer bushing

PVC from 3-way valve

Short piece of 1" PVC

1" union (optional)

1" main-line PE tubing

PVC 90

See "Alternative Parts" note on page 2

1" main-line PE tubing

1/2" tubing

1 x 1/2" tee

Mulch Shield

Mulch Basin

Depth variable depending on site conditions

1" male adapter

Barb x insert adapter

1" PVC

1 1/2" female adapter

1 1/2" x 1" reducer bushing

1/2" tubing

1 x 1/2" tee

Fruits and vegetable plants are safe to irrigate with graywater so long as the edible portion doesn’t touch the ground and/or mulch.

*Exposed piping needs to be labeled every 5 feet as “Caution: Nonpotable Graywater. Do Not Drink.”

**Increase distance if adjacent property has hardscape or is lower in elevation.

Laundry to Landscape systems are mostly suitable for downward sloping yards or flat yards.

Front loading machines can distribute up to 8 outlets (or less for a very efficient machine) while top loading machines can do up to 12.

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Laundry to Landscape: Graywater System Example Parts List

To jump-start planning your graywater laundry to landscape project, this handout provides an example parts list and system diagram. To protect your property, neighbors, and the environment, you’ll need to seek out additional information for proper system design. As each system varies based on the home and landscape, the final system you install may require fewer or more or slightly different components than depicted. This handout is provided for illustrative purposes only.

Marin Water has partnered with the Urban Farmer Store to offer a $100 discount on your purchase of a laundry-to-landscape graywater kit (Mill Valley location). Application and additional information is available at marinwater.org/rebates or 415-945-1523.

1. Diverter (3-Way) Valve
   - 1” Brass 3-Way Valve (Diverter Valve)
     Avg. Qty: 1
   - 1” PVC Male Adapter (Slip x Male Pipe Thread)
     Avg. Qty: 1
   - 1-OR 2-Hole Straps
     Avg. Qty: 2 or as needed
   - 1” PVC Schedule 40
     Avg. Qty: approx. 10-30’
   - 1” Barbed x 1” Male Pipe Thread
     Avg. Qty: 1
   - ½” x 1¼” Hose Clamp Stainless Steel
     Avg. Qty: 1
   - Note: To connect to the diverter valve, smaller washer drain hoses may need a ¾” Barbed x ¾” Male Pipe Thread with a 1” x ¾” PVC Threaded Bushing

2. Auto Vent
   - Auto Vent (In-Line Vent or AAV)
     Avg. Qty: 1
   - 1½” PVC Adapter (Slip x Female Pipe Thread)
     Avg. Qty: 1
   - 1½” x 1” PVC Bushing
     Avg. Qty: 1
   - 1” PVC Tee
     Avg. Qty: 1
   - 1” Barb x Insert Adapter
     Avg. Qty: 1 each
   - 1” Barb x Insert Adapter Slip-Thread Coupling and 1” Barbed x 1” Male Pipe Thread
     Avg. Qty: 1 each
   - 1” main-line PE Tubing
     Avg. Qty: approx. 5-100’
   - Note: Alternative parts instead of 1” Barb x Insert Adapter

3. Transition to the Landscape Side of the System
   - 1” PVC 90 or 45
     Avg. Qty: approx. 1-4
   - Vacuum Breaker
     Avg. Qty: 1 (optional)
   - 1” Barb x Insert Adapter
     Coupling and 1” Barbed x 1” Male Pipe Thread
     Avg. Qty: 1 each
   - Note: To connect to the diverter valve, smaller washer drain hoses may need a ¾” Barbed x ¾” Male Pipe Thread with a 1” x ¾” PVC Threaded Bushing

4. Mulch Basin: Graywater Outlets
   - 1” Barb x Insert Adapter
     Avg. Qty: 0-11
   - 1½” PE Tubing
     Avg. Qty: approx. 0-20’
   - ½” Barbed Full-Port Ball Valve
     Avg. Qty: 0-4
   - Visible Mulch Cover
     Avg. Qty: 1-12
   - Mulch Shield (7” irrigation valve box)
     Avg. Qty: 1-12
   - Wood Chip or Bark Mulch
     (1/2”-3/4” chips)
     Avg. Qty: project dependent
   - Note: Mulch can vary in appearance by color, texture, and source material

Additional Parts and Suggested Tools
- 1” PVC Coupling
  Avg. Qty: As needed
- 1” Barbed Tee or Coupling
  Avg. Qty: As needed
- Garden Staples
  Avg. Qty: As needed
- Caulking
  Avg. Qty: 1
- PVC Industrial Grade Glue
  Avg. Qty: 1/2 pint
- Pipe Thread or Teflon Tape
  Avg. Qty: 1 roll
- PVC Cutter
  Avg. Qty: 1
- Channel Locks
  Avg. Qty: 1