

*Collective Solutions*  
Workshop Syllabus  
**Greywater Systems: Design & Construction**

**Number of Participants:** 10-20 people

**Skill Level:** Beginner/ Intermediate

**Total Workshop Length:** 3-5 Days

**Classroom:** 1 Day

**Project Installation:** 2-4 Days

**Required Materials (subject to vary):**

Piping preferably metal of some kind, piping elbows, pipe fittings, sand, 50 gallon water drums, saw, liners, plastic 4 in piping, reeds (local variety), cement, bricks, shovels, 2 in piping

**Participants:** Note pad, pen, shovel, general construction tools (if they own them)

**Host Organization:** Classroom, lunch, and above materials to be determined between CS and Host Organization

**Average Cost of Project:** Depending on the size of the system and how many residents will be using the system: \$400 - \$2,500\* (\*All prices are in US Dollars)

**Host:** Minimum 30% of cost to paid for by host organization

**Participant Cost:** Free

**Objective:** To review options for greywater applications and to install an adequate system that filters water for reuse at the host site.

**Workshop Description:**

Any water generated from a home or business, except water from toilets, is called greywater. Sink, shower and laundry greywater make up the majority of common “wastewater.” Traditional plumbing systems dispose of greywater using septic tanks or sewers. The major drawbacks of these approaches include contaminating natural waters and overloading treatment systems. When properly designed, greywater disposal systems can reduce the negative impact on the environment as well as convert “wastewater” into a valuable resource. Filtered greywater is frequently used for irrigation purposes. This workshop will examine several varieties of greywater systems, as well as their appropriate applications and maintenance. Based on the needs of the host, participants will install a functioning system onsite.