



## Running Water at Camp!

Really feeling the need to wash your hands rather than just using hand sanitizer? Want to wash your hair, but not quite ready for a full-body solar shower experience? Love trips to the hardware store? Then this project is for you!

You may have seen versions of this project on YouTube:

<https://www.youtube.com/watch?v=embBA1LAspA>

<https://www.youtube.com/watch?v=u6NHEGFClIk>

I absolutely want to give credit where credit is due, as these two guys came up with great projects, but I think you'll find that my version is simpler and easier to build ☺

## Materials:

- 2 5-gallon buckets, 1 lid [http://www.canadiantire.ca/en/pdp/ip-5-gallon-bucket-0581060p.html#\\_U-PhPEiklBc](http://www.canadiantire.ca/en/pdp/ip-5-gallon-bucket-0581060p.html#_U-PhPEiklBc)
- 1 piece of ½" PVC pipe <http://www.rona.ca/en/pvc-plain-end-pipe>
- 1 3-way branch for ½" PVC pipe <http://www.leevalley.com/en/garden/page.aspx?p=67332&cat=2,66758> (item F)
- 1 T-connector for ½" PVC pipe <http://www.rona.ca/en/pvc-tee>
- 1 Elbow for ½" PVC pipe <http://www.rona.ca/en/1-1-2-in-pvc-elbow>
- 1 foot pump [http://www.canadiantire.ca/en/pdp/i-d-primer-bulb-3-8-in-0799018p.html#\\_U-PZRkiklBc](http://www.canadiantire.ca/en/pdp/i-d-primer-bulb-3-8-in-0799018p.html#_U-PZRkiklBc)
- 1 10' length of 3/8" (inner diameter) clear plastic tubing [http://www.canadiantire.ca/en/pdp/watts-clear-pre-cut-vinyl-tubing-0633265p.html#\\_U-PjUkiklBc](http://www.canadiantire.ca/en/pdp/watts-clear-pre-cut-vinyl-tubing-0633265p.html#_U-PjUkiklBc)
- 2 small hose clamps to fit tubing

## Instructions:

1. Cut your plastic tubing into two sections, one 6' long and the other 4' long. Connect the 2 pieces of plastic tubing to either end of the foot pump with small hose clamps, ensuring that the arrow on the pump is pointing toward the longer 6' section of tubing.
2. Drill a hole near the top edge of your Clean Water Bucket that will accommodate your clear plastic tubing and insert the 4' length of tubing into the bucket via the hole till the end of the tubing touches the bottom of the bucket.



3. Cut your PVC pipe and build your tap assembly with the PVC connectors:
  - 1 piece 4" in length for the tap section—fit the Elbow onto one end
  - 1 piece 24" in length for the upright section—attach to the tap section with the T-connector
  - 2 pieces 6" in length for the base—attach these to the upright section with the 3-way branch



4. Thread your 6' length of tubing through the tap assembly so that a small bit of tubing sticks out of the tap opening.
5. Fill your Clean Water Bucket with water (from your Solar Shower if warm water is desired) and place the bucket lid on top.
6. Place the Grey Water Bucket on top of the Clean Water Bucket lid and place the Tap Assembly inside the Grey Water Bucket.



7. Try it out! This camp sink works really well for washing hands and washing hair. For hand washing, re-purpose a foaming hand soap dispenser to use less soap—just mix your favourite environmentally friendly liquid soap (e.g. Sierra Dawn CampSuds): approximately 1 part soap to 9 parts water.

As a bonus you can use the Grey Water Bucket as a **Camp Washing Machine** as pictured above if you drill a hole in the center of the bucket lid and add a Plunger Agitator! (To make a Plunger Agitator, purchase an inexpensive rubber sink plunger and drill several holes in it to allow the water to flow through).

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