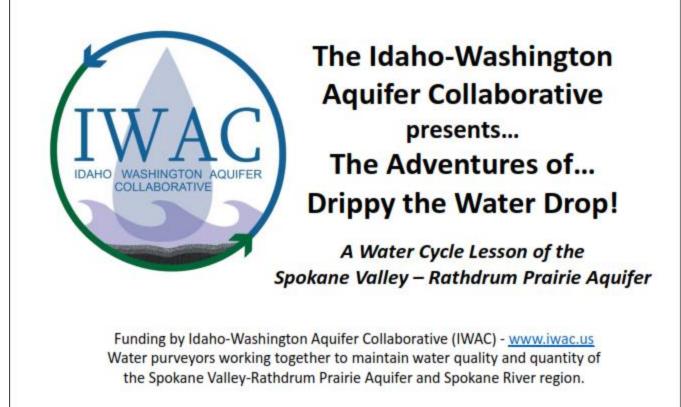
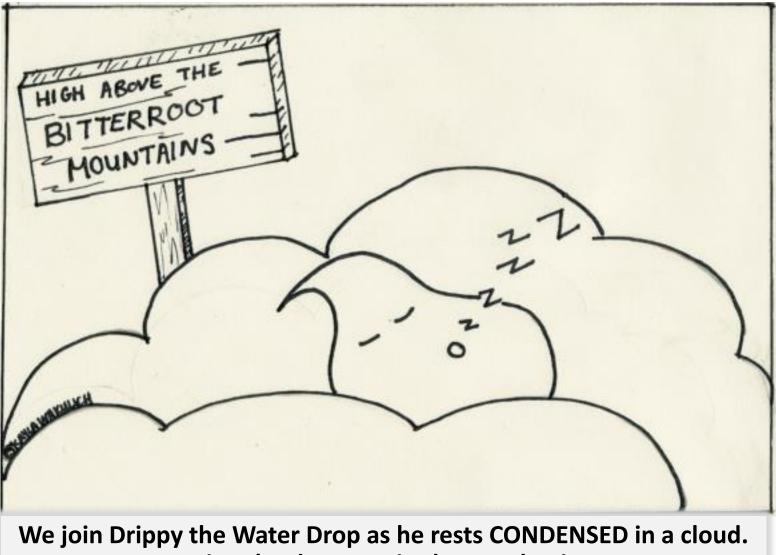
# 4/10/18 Drippy Update – Toni Taylor

- Artwork is done.
- Unfortunately, cards have not been separated into individual and evenly sized documents. Need to divide into individual cards (or arrange professionally on sheets for printing) and oriented properly.
- Need to find someone with graphic capabilities or it will have to wait until Toni Taylor can find time to figure it out.
- Recommend not making final payment yet as I may reach out to Kayla to solve this first. Contractually, it appears she's not obligated to.



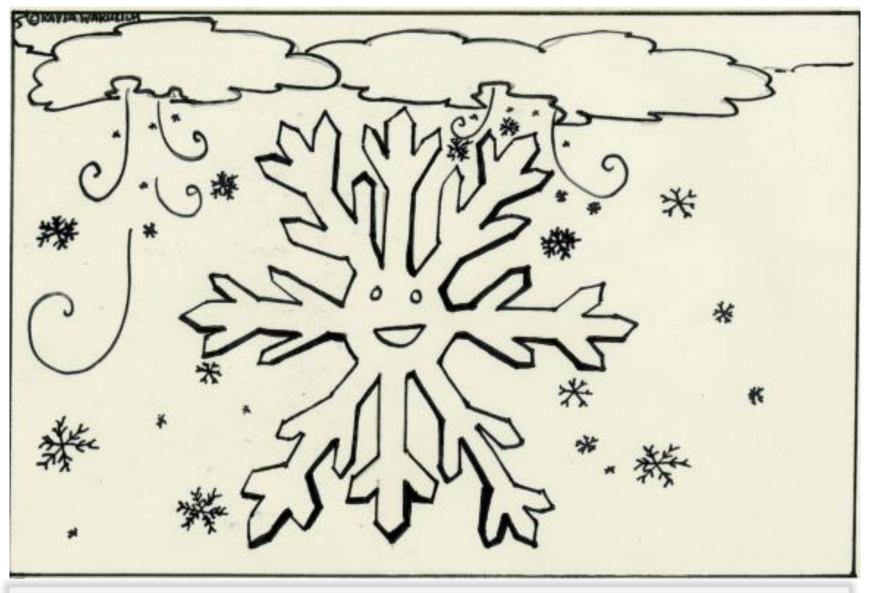




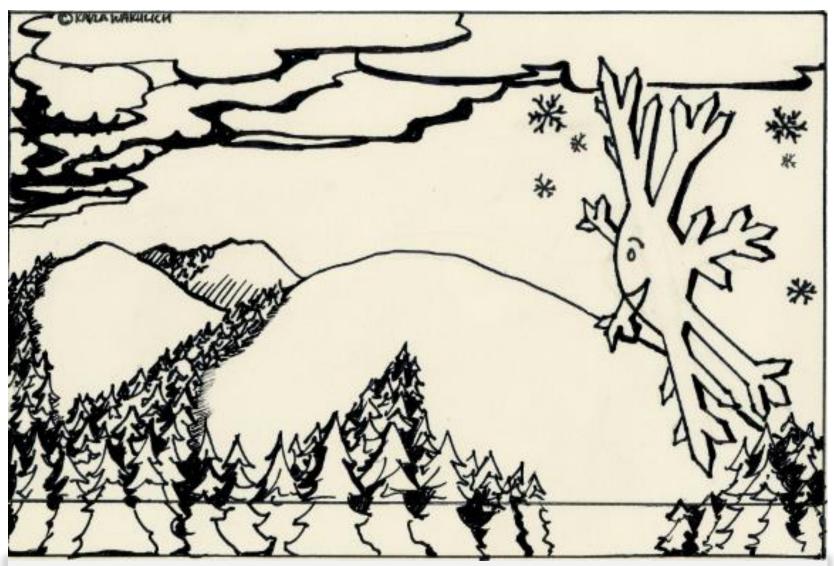
Drippy's adventure is about to begin



When it is cold, Drippy becomes snow.



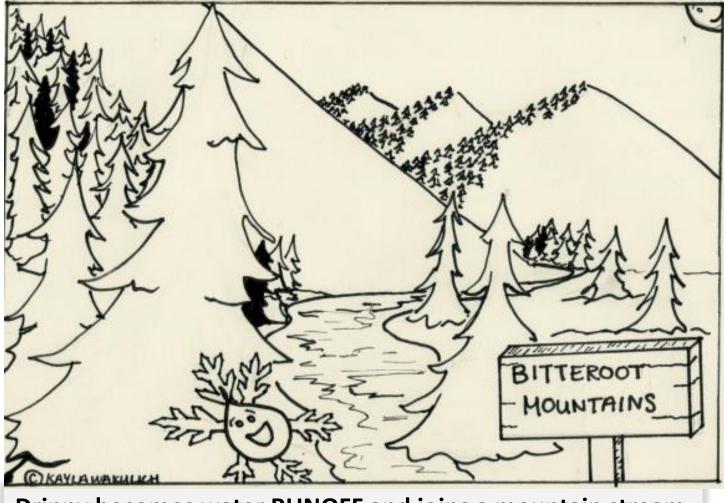
Drippy is now PRECIPITATION and falls from the sky.



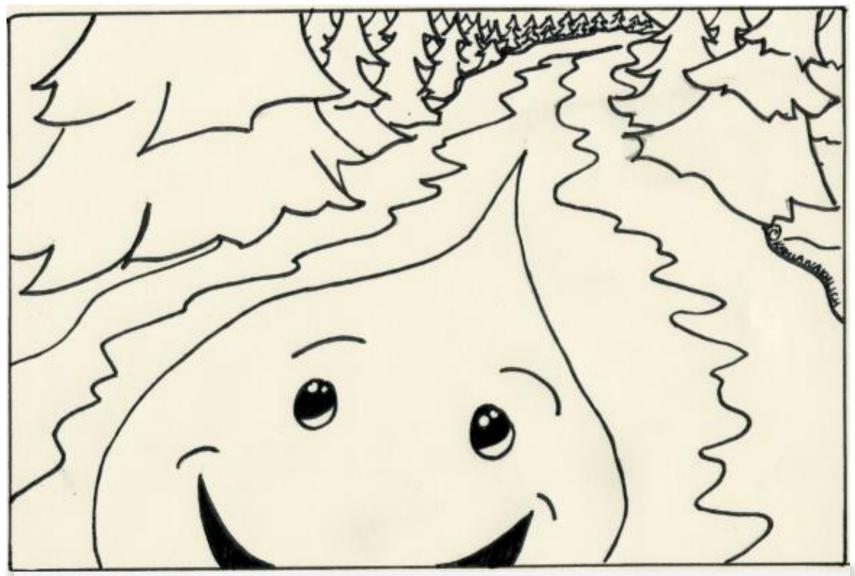
Drippy joins the other snow covering the mountains.



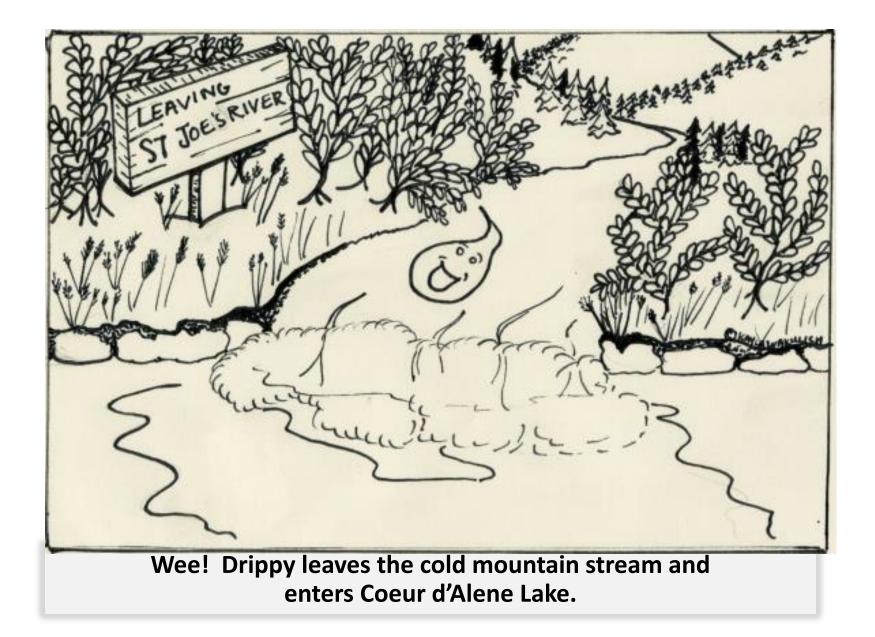
Drippy begins to MELT and changes from snow to water.



Drippy becomes water RUNOFF and joins a mountain stream.

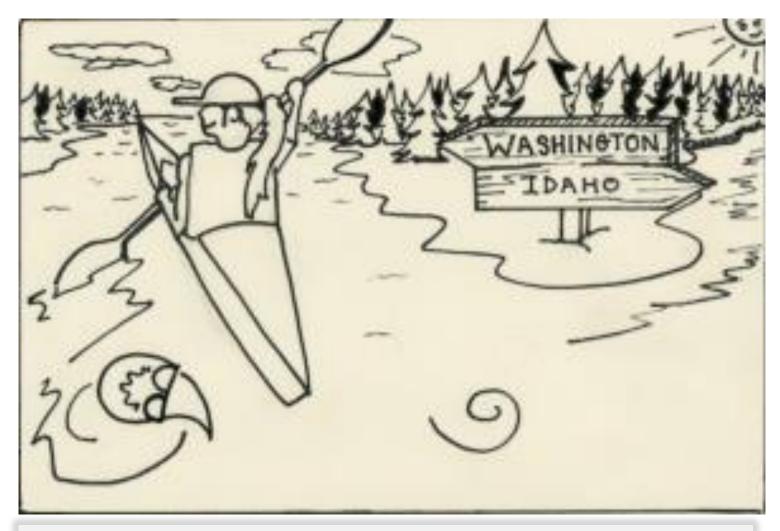


Now Drippy is SURFACE WATER in the WATERSHED.

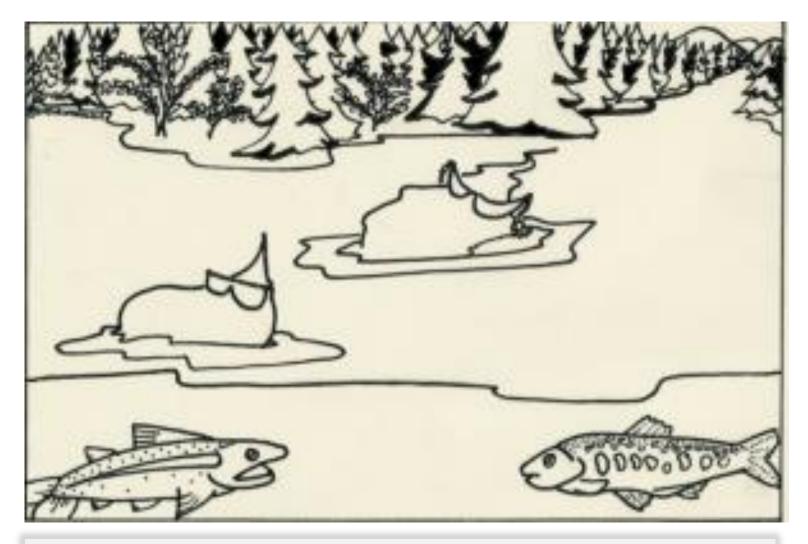




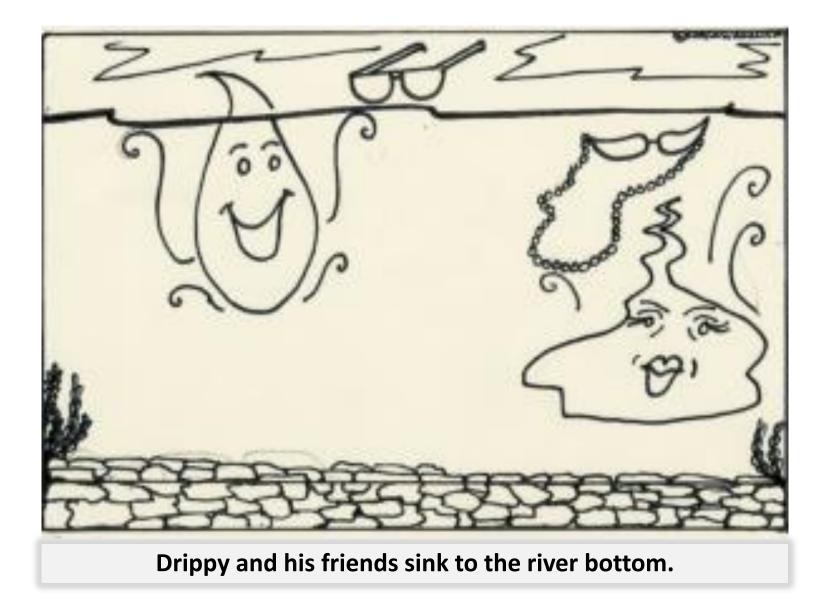
Drippy rests as the CURRENT takes him across the lake.



Drippy leaves Coeur d'Alene Lake and enters the Spokane River.



Now in the Spokane Valley, Drippy meets friends from the Spokane Valley-Rathdrum Prairie AQUIFER.

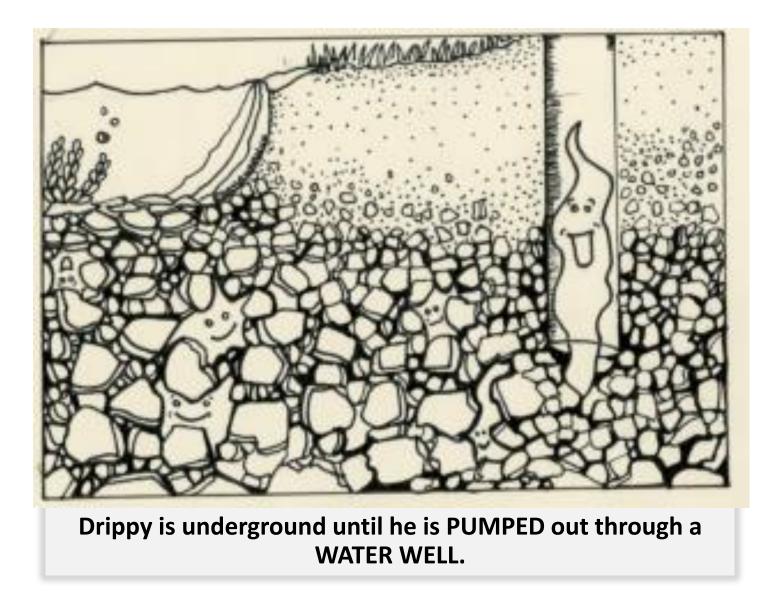


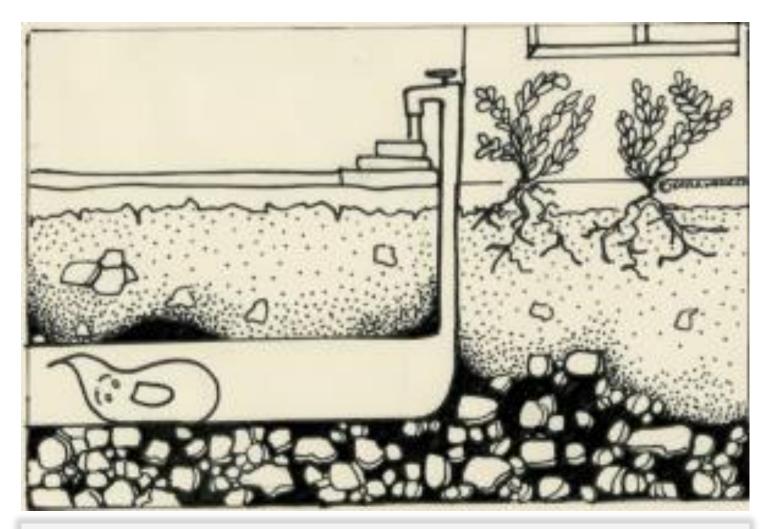


Drippy changes shape to fit between the rocks.

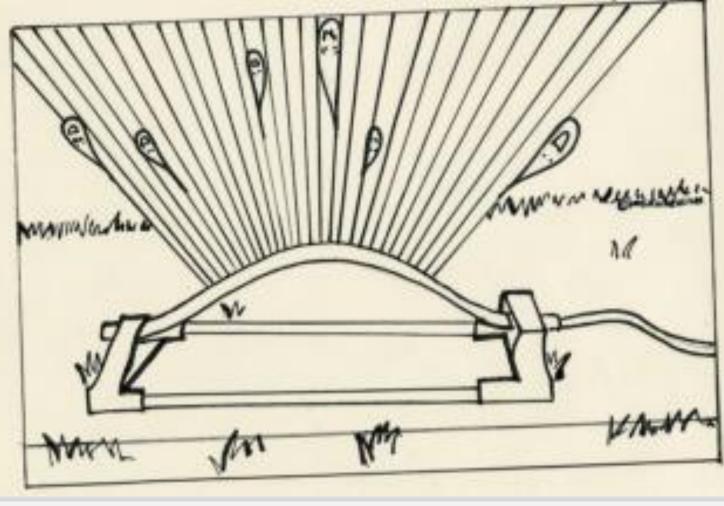


hrough INFILTRATION, Drippy and his friends become GROUNDWATER.

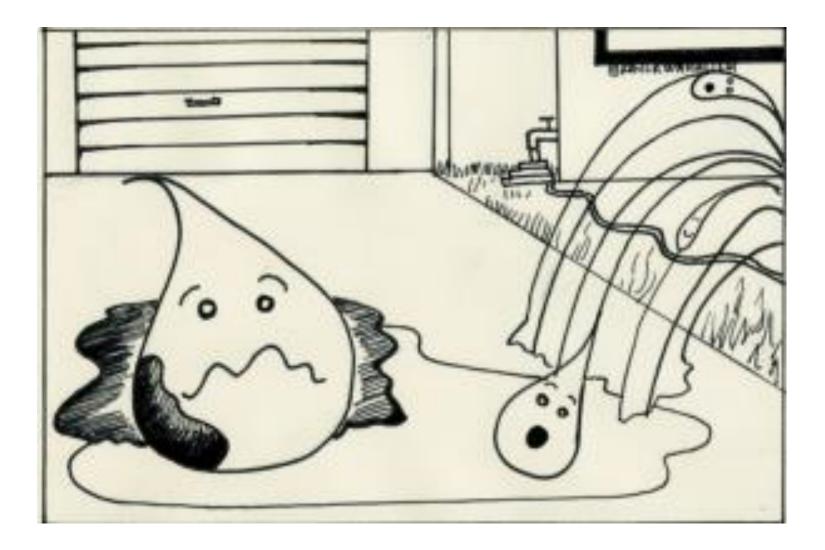




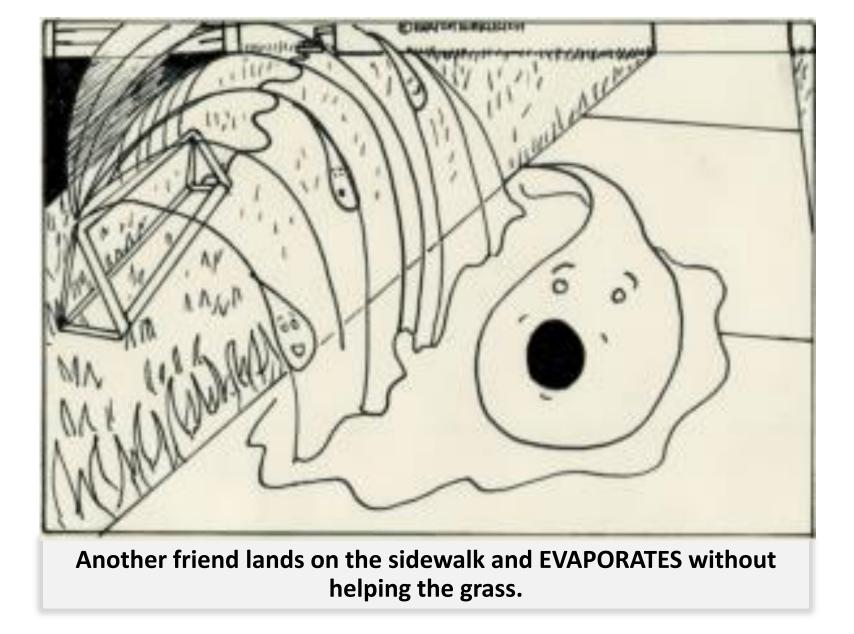
Drippy then travels through PIPES to homes and businesses.

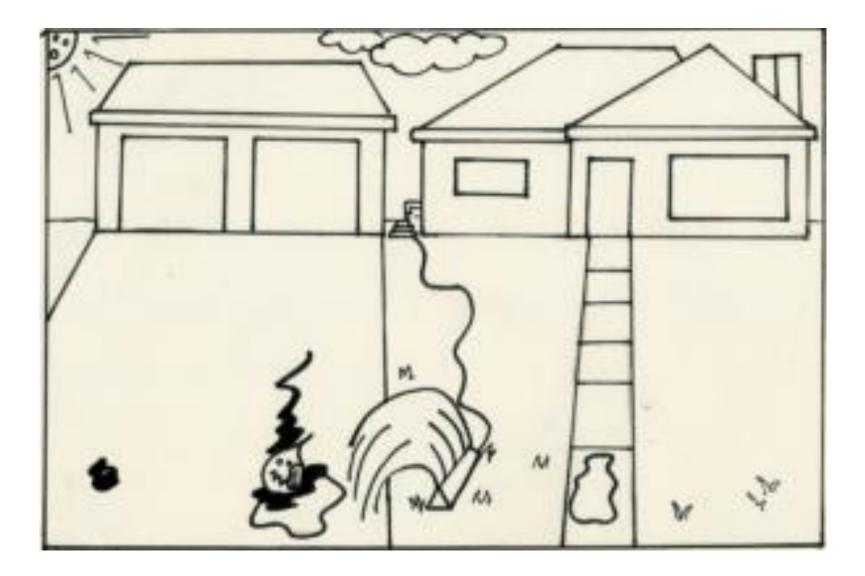


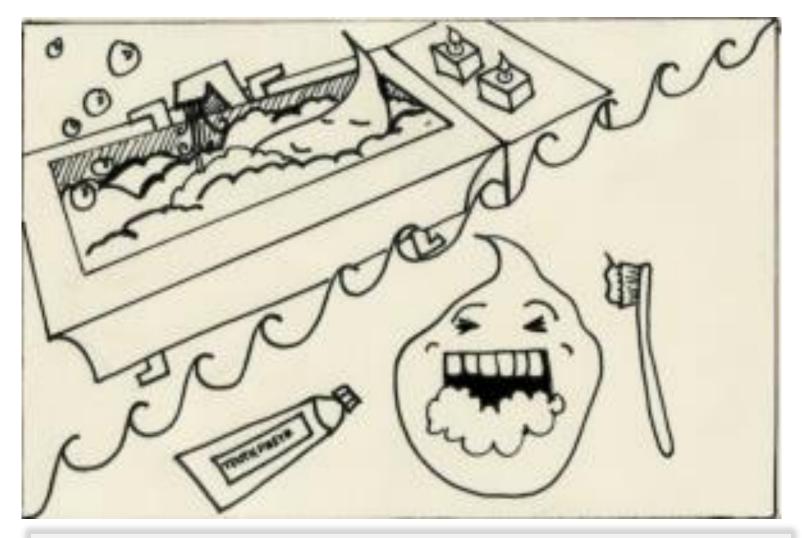
Drippy and friends come out through a lawn sprinkler!



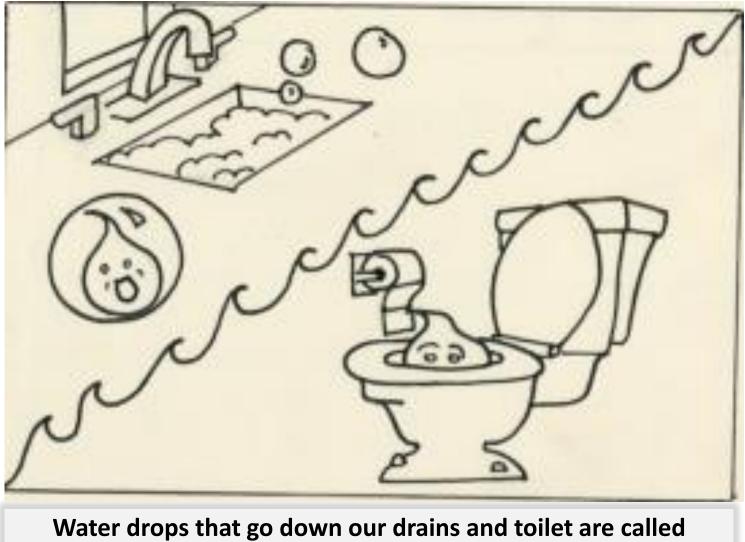
Drippy's friend lands in oil. Oh no...that's STORMWATER pollution!



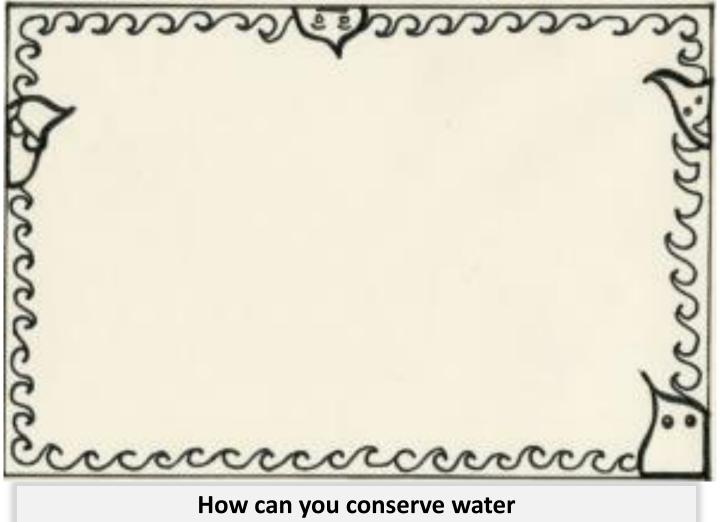




Some water drops flow into our homes and are used for many things.



# Water drops that go down our drains and toilet are called WASTEWATER.



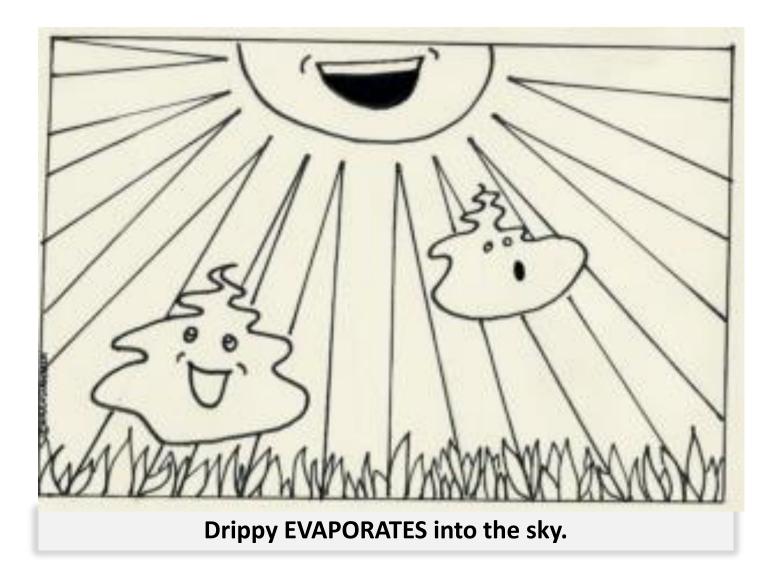
How can you conserve water inside and outside of your home?



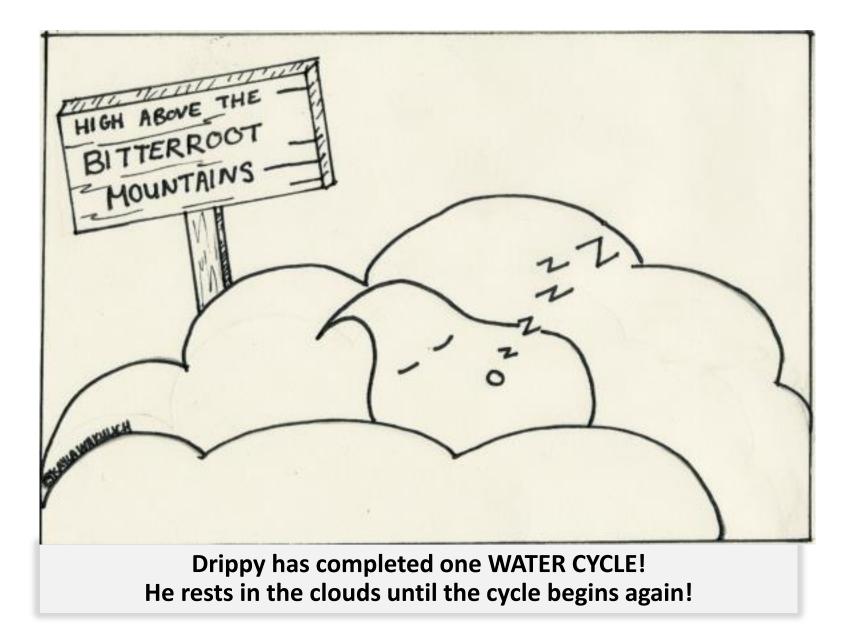
Drippy lands on a blade of grass and feels dizzy and warm from the heat.



The sun warms Drippy and he begins to float in the air.







#### VOCABULARY

**Condensation (***n***):** the conversion of a substance (such as water) from the vapor state to a denser liquid or solid state usually initiated by a reduction in temperature of the vapor **Precipitation (***n***)**: a deposit on the earth of hail, mist, rain, sleet or snow

Melt (v):to become altered from a solid to a liquid state usually by heat

**Runoff (***n***):**the portion of precipitation on land that ultimately reaches streams often with dissolved or suspended material

**Surface Water (***n***):** natural water that has not penetrated much below the surface of the ground

**Watershed (***n***):** an area of land bounded peripherally by a divide and draining ultimately to a particular body of water

**Current (***n***):** the movement of water in a stream or river

**Aquifer (***n***)***:* water within the earth, especially that which supplies wells and springs **Infiltration (***v***)***:* to enter, permeate, or pass through a substance or area by filtering or by insinuating gradually

**Groundwater (***n***):** a water-bearing stratum of permeable rock, sand or gravel

**Pump (v):** to draw or move fluid especially by suction or pressure or both

Water Well (n): a pit or hole sunk into the earth to reach a supply of water

**Pipe (n):** a tubular or cylindrical object for moving a liquid, gas or finely divided solid **Stormwater (n):** surface water resulting from heavy falls of rain, snow and snow/ice melt **Evaporation (n):** to convert into vapor or a gaseous state from a liquid or solid state **Water Cycle (n):** sequence of conditions through which water passes from vapor in the atmosphere through precipitation upon land or water surfaces and ultimately back in the atmosphere as a result of evaporation and transpiration – a.k.a. the hydrologic cycle

## **TEACHER INSTRUCTIONS:**

By following the journey of Drippy the Water Drop, these cards teach the natural water cycle PLUS the concept of the aquifer and how we use pipes and pumps to get our water. It includes five cards about human use which can be removed depending on the desired lesson content. It is available in a full-color teacher's version and in a black and white student version for coloring. **Suggested Lesson:** Review the water cycle. Have each student color a card. Bring the class together around a large surface and have the students lay the cards side-by-side in the correct order.

#### **HUMAN USE CARDS:**

### Card Numbers: 19, 20, 21, 22, 23

Remove the Human Use cards if you wish to focus only on Drippy the Water Drop's (mostly) natural water cycle journey of condensation, precipitation and evaporation. Leave the Human Use cards if you wish to include concepts of stormwater, wastewater and water conservation.

Human Use Card 19: Stormwater pollution; driveway oil
Human Use Card 20: Outdoor water use; avoid watering the sidewalk
Human Use Card 21: Indoor water use; types of use
Human Use Card 22: Indoor water use; types of use
Human Use Card 23: Conservation; reflection after seeing prior cards

Contact a local informal educator for a classroom visit or field trip to a local area hydropower facility, historic water well, wastewater treatment facility, wetland or creek.

