

This comic is the second in a series of comic books created by First Nations Technical Services Advisory Group to teach students in grade 3-6 about the Superheroes that make and keep our water safe to use.

PDF copies of this booklet and other educational materials are available from TSAG

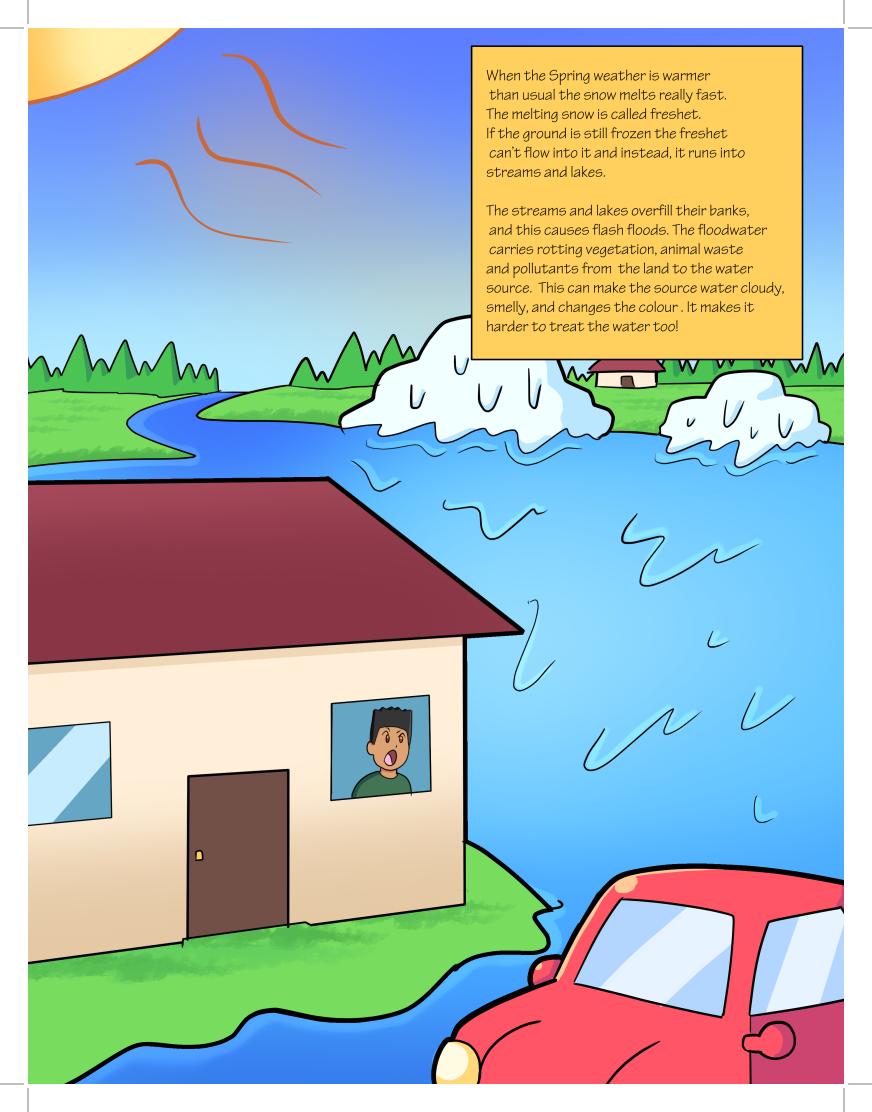
Telephone: 780 486 8601 Email: mbradley@tsag.net

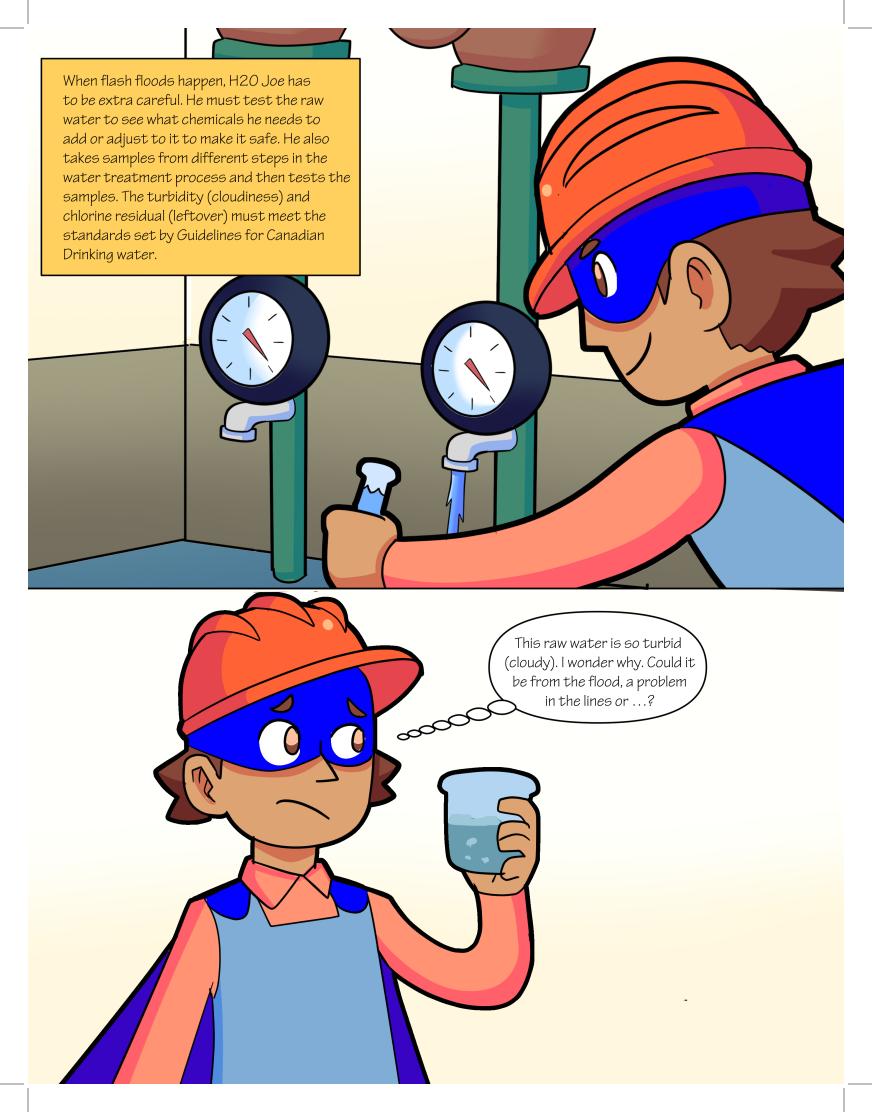
Address: 18232-102 Ave, Edmonton,

Alberta. T5S 157.

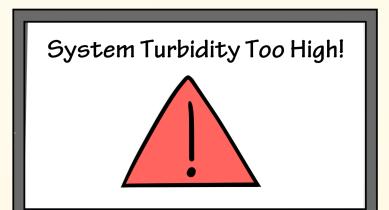


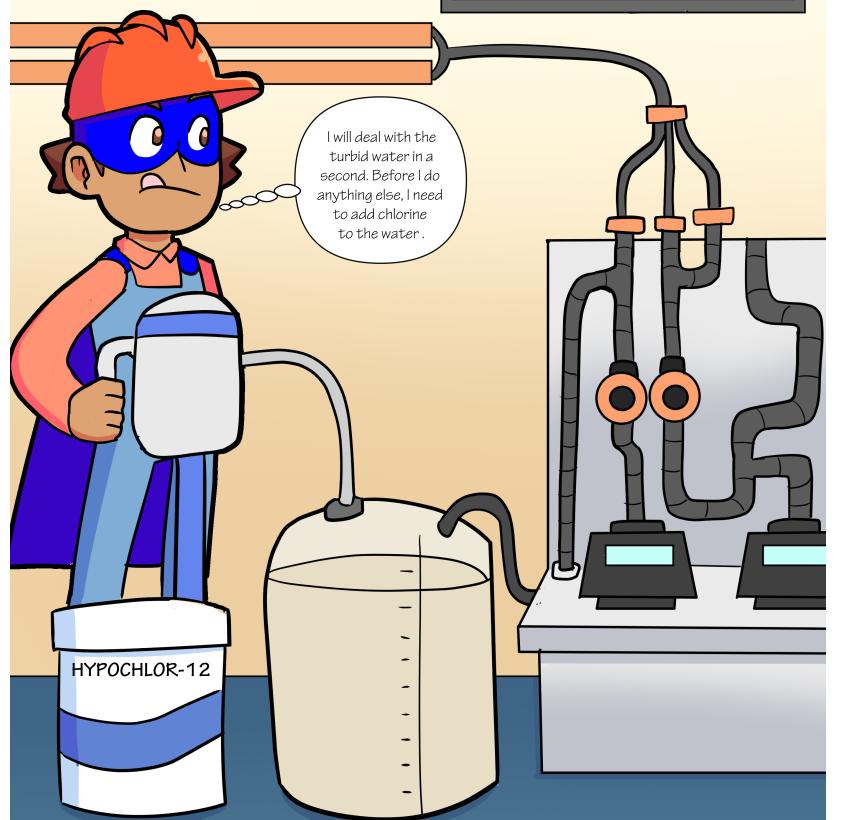


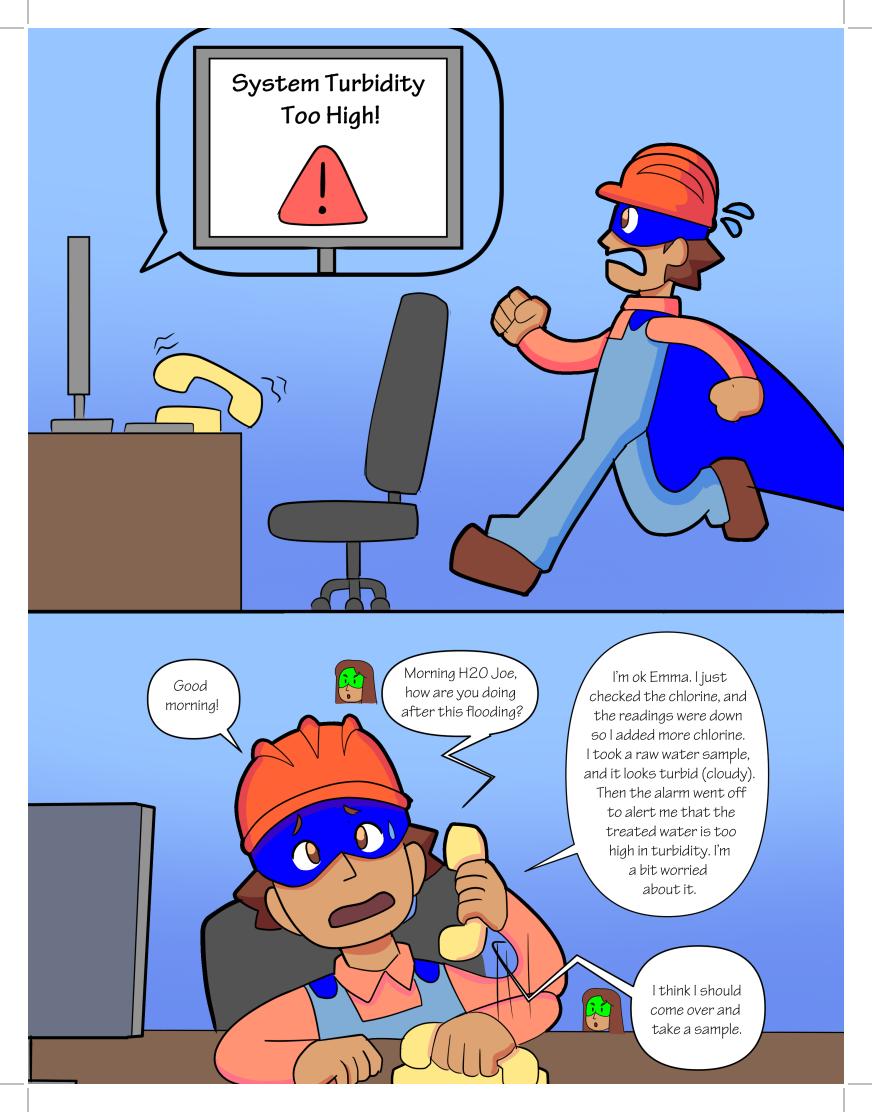


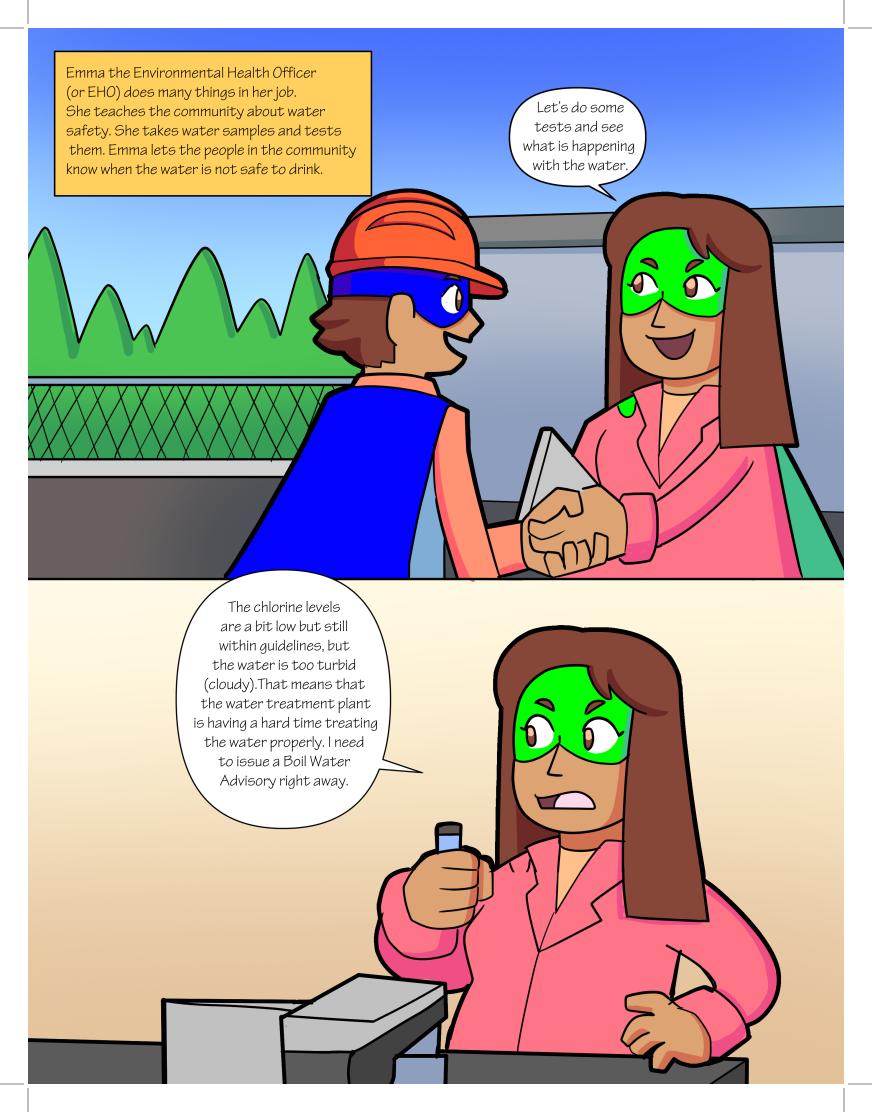


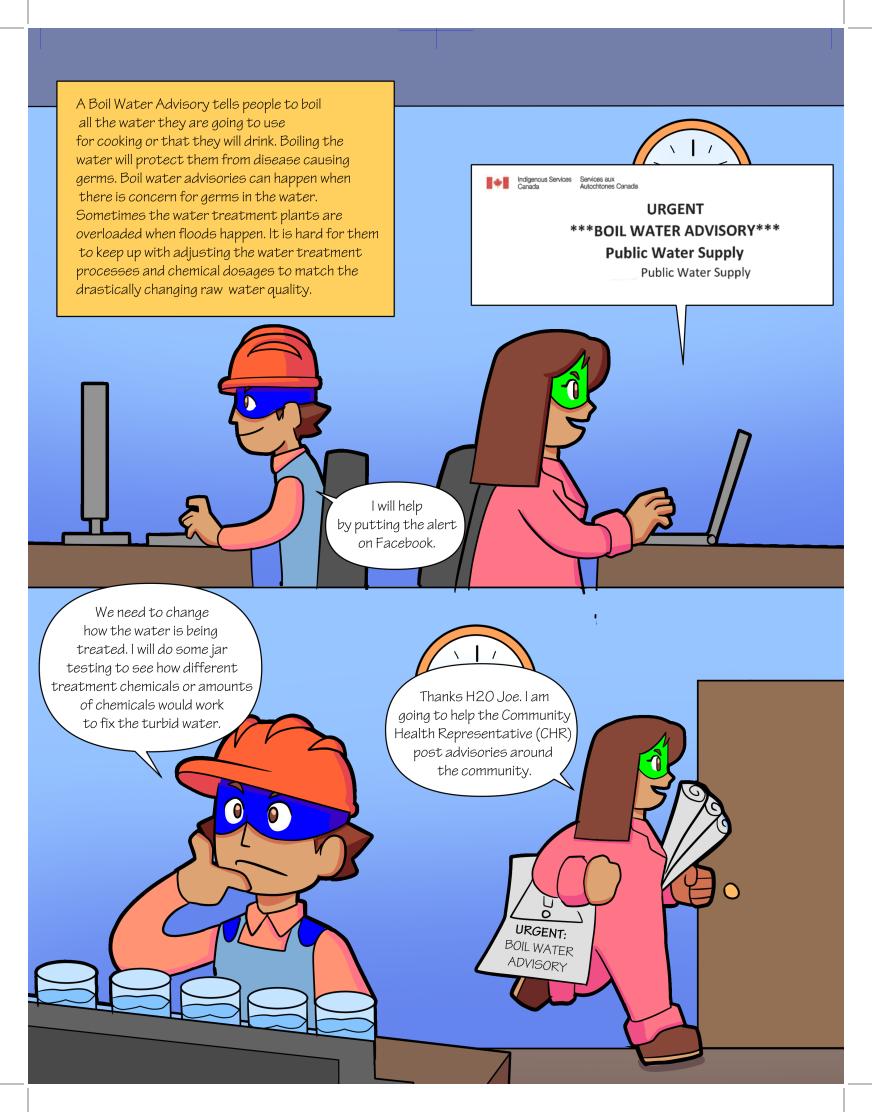
When the system alarm goes off, that means that the water in the system is not meeting the guidelines for Canadian drinking water quality (CDWQ). In this case, the turbidity (cloudiness) is too high

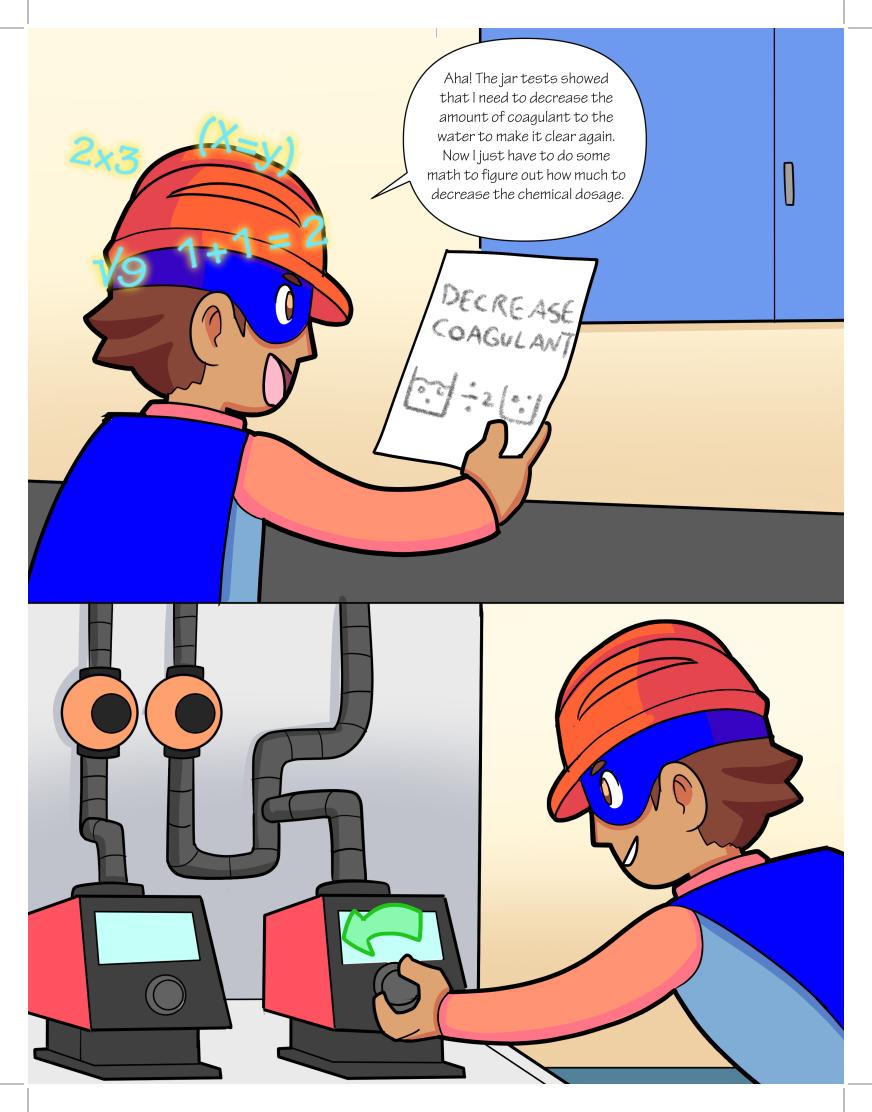


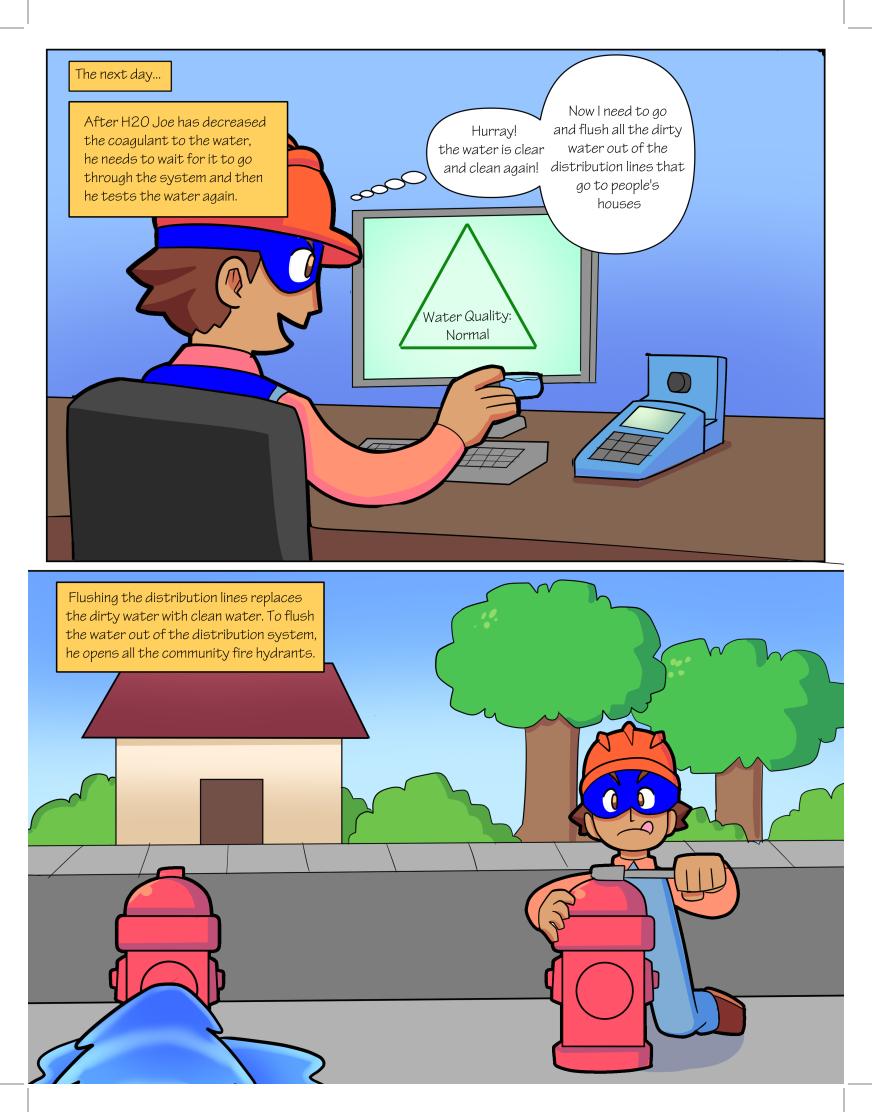


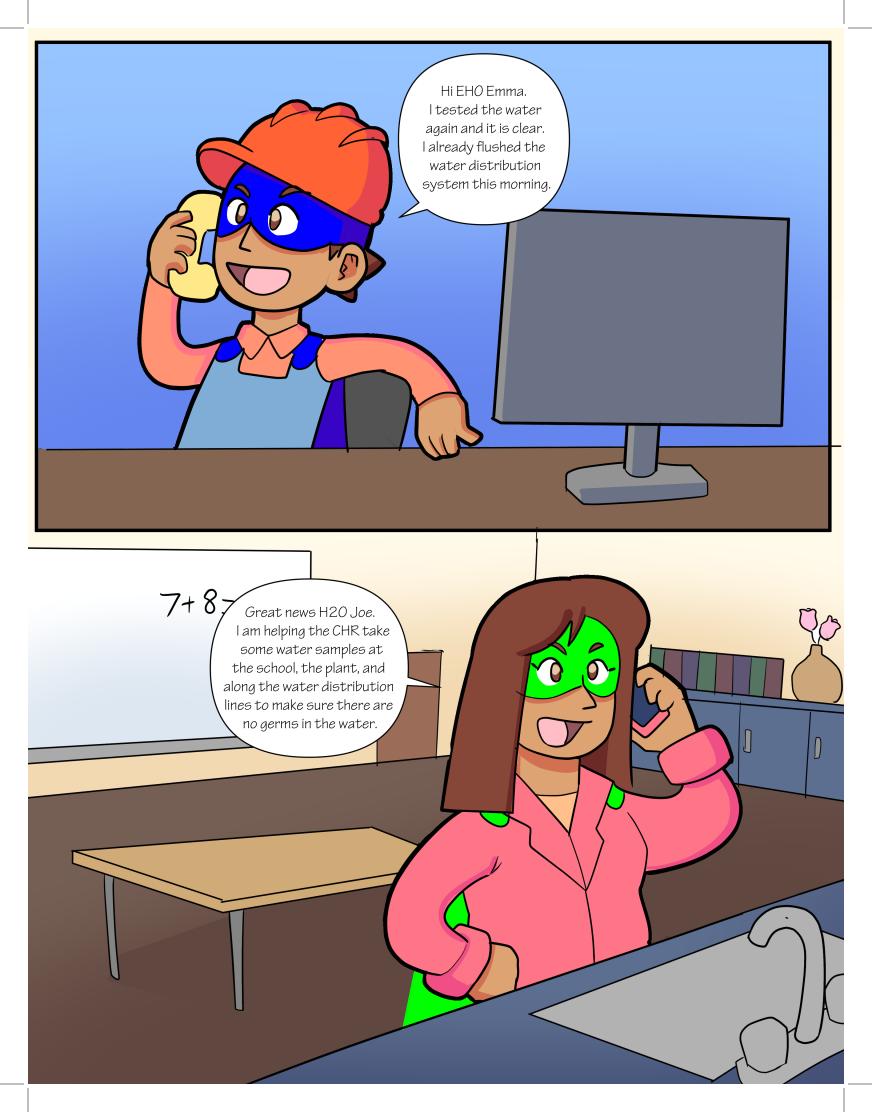




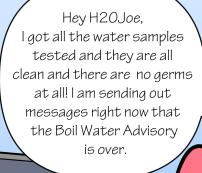












You know, floods always
make the water cloudy,
but I think we should
go to the water source
to see if there is
anything else is
going on.

This is really good news. The community will be really happy



I will meet you at the lake this afternoon.

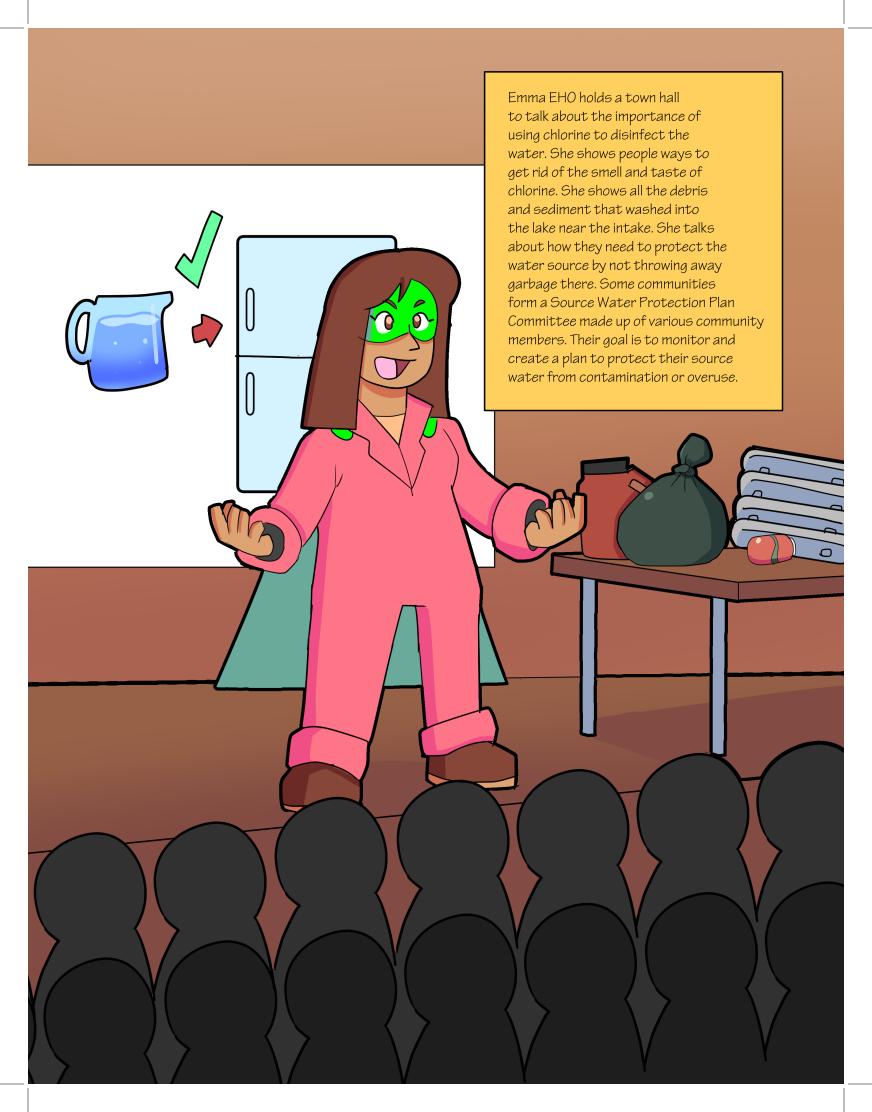
I think it is good
that we met at the
water source to see
if there is anything
else going on. We need
to keep an eye out for other
sources of contamination
like algae blooms, fish
kills or other sources
of contaminants.

All the farms
and pollution nearby
can add germs to
the water.



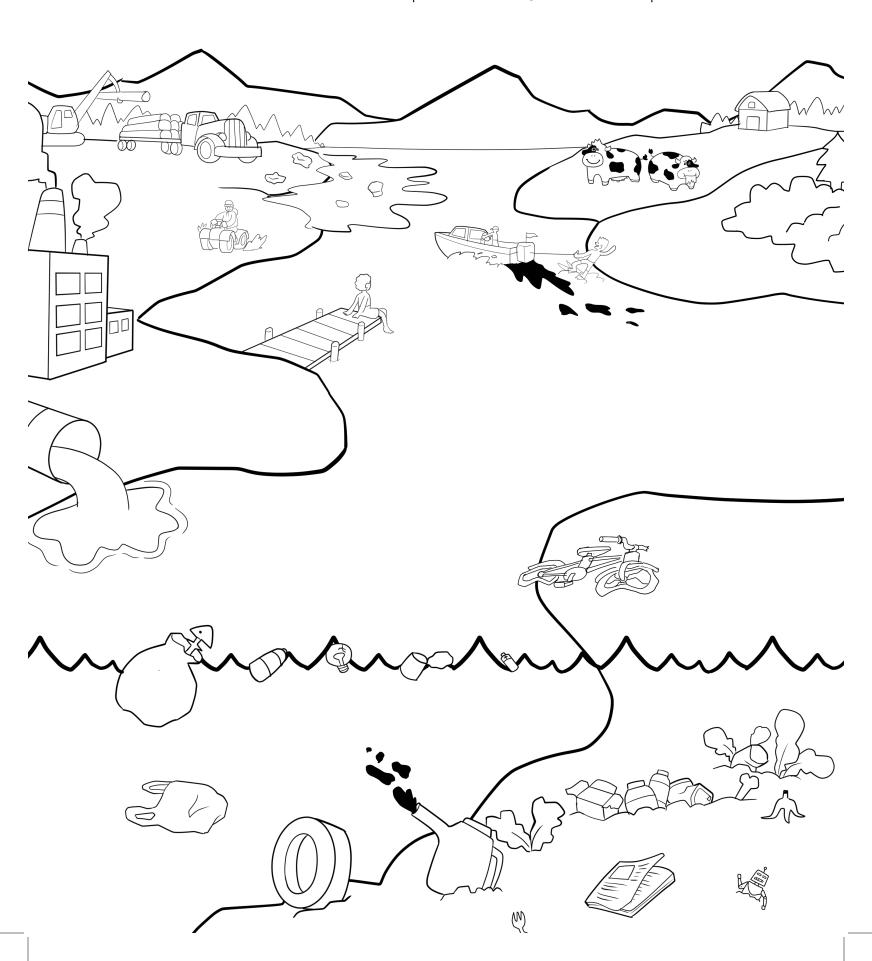


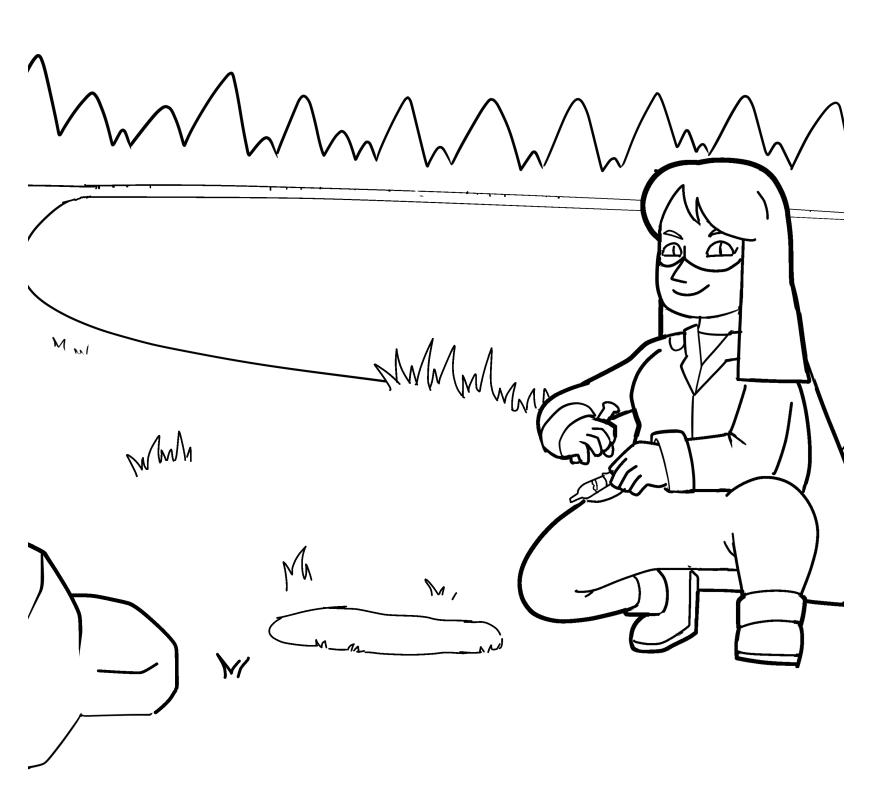




Learning Activity!

Circle all the sources of water pollution that you see in this picture.





C Ε Κ 0 Α S Ε Q M Χ Κ Ε С G W R R Η L 0 F ı Α S 7 0 0 D S С L Ε Α Ν F 0 R S Н Ε Τ F R Α U L U Н L Н В Ν Υ В W K Τ Q G Х L Τ 0 L U 0 Ν D 0 C В С G D M D В D Н C Ε Α Κ L L Α K Ε S Q Η Q Ε Ε F S W Κ J M D J Ν Ν U Μ D Χ S Q R G S Z Ε R 0 Μ Ε Ν Τ Κ J C J 0 Ε M Τ

ANIMALS FLUSH
BOIL GARBAGE
CHLORINE HEALTH
CLEANERS LAKES
ENVIRONMENT OFFICER
FLOODS POLLUTION

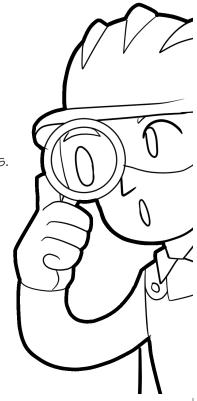
PROTECT WASTE WATER

We can protect the sources of our drinking water. We can stop pollution.

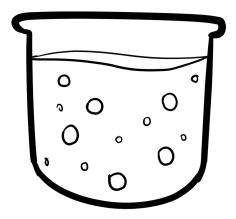
We can:

- Make sure we don't leave any garbage behind
- Make sure that chemicals from our homes don't get put down the toilets and sinks.
- Recycle all the chemicals and cleaners that we don't use anymore.

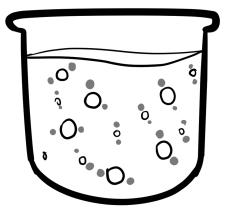
Ask your parents to take you to the nearest body of water and find all the sources of water pollution. Take a garbage bag with you and collect what you can and clean up the body of water.



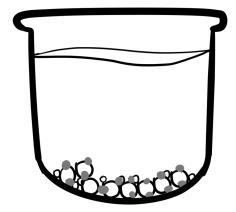
For Parents and Teachers: Water Facts







Adding coagulant



The coagulant attaches to the impurities and forms biggerparticles that can be taken out more easily.

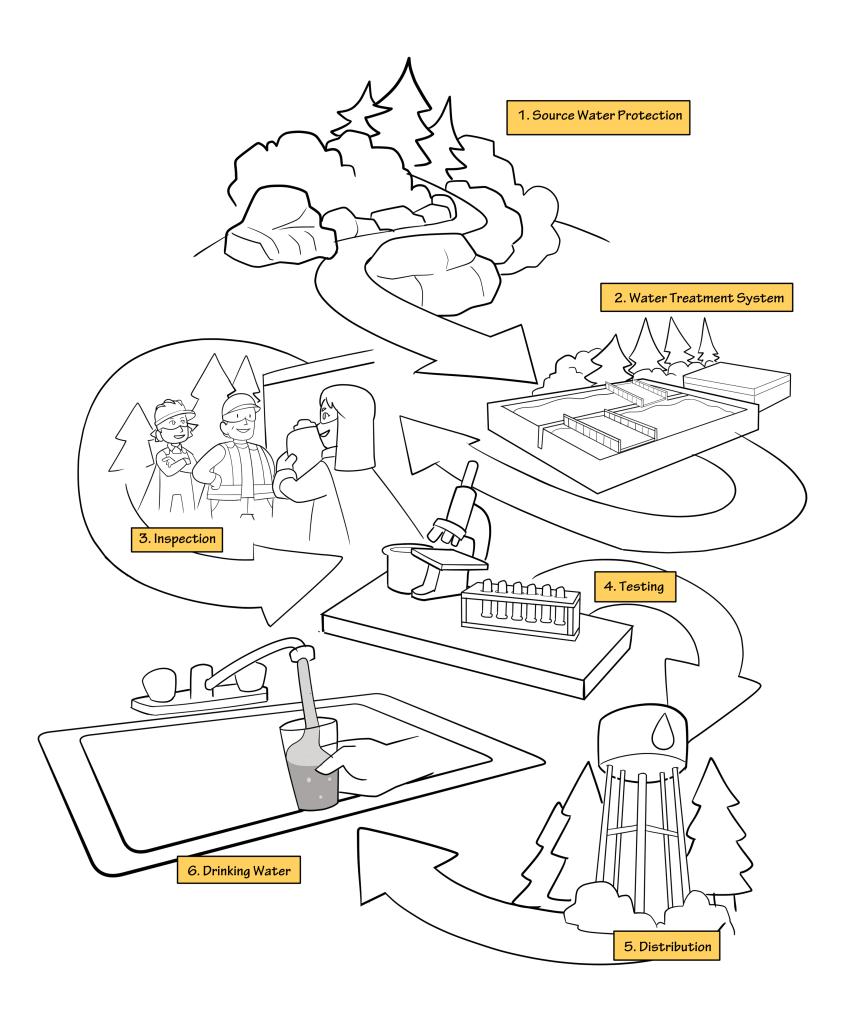
Water Facts

Floodwater can contaminate drinking water sources when it comes into contact with things like garbage and animal waste. These things increase the amount of bacteria that seeps into the water source. They also make it more difficult to clean the water.

When water has a chlorine smell, placing it in a pitcher over night will help evaporate chlorine. You can also use a carbon filter such as Brita to to minimize chlorine taste and odor.

Activities you can do with your students or children

- 1. Discuss how you as a family can ensure you do not contribute to contaminating the water:
- · Make sure your car doesn't have any toxic liquids leaking from it: gasoline, oil, coolant, antifreeze,
- Don't flush diapers or wet ones down the toilet.
- Pick up after your pet.
- Don't wash paint, used oil, chemical cleaners, down your drain. Take all your household chemicals to the next toxic waste roundup in your community.
- 2. Take your child to the nearest local waterbody and see how many different kinds of plants and animals you can count.
- 3. Start a community shoreline clean-up program you could involve public works or the health centre!
- 4. See if there is a Source Water Protection Plan for your community. Maybe you would like to become a champion for this!
- 5. <u>To learn more about water treatment try this experiment with your child.</u>
 https://www.squizzelbox.com/blogs/extension-activities-for-water-theme/purify-water-through-chemical-processing





See you again for H2O Joe's next adventure!