



Earth Day 2008



Southern
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Intelligentsia International, Inc.



TETRA TECH



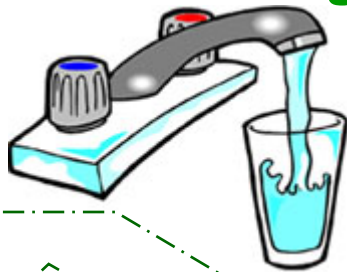
Your Family Can Save Money by Drinking Tap Water

by MIHEE LIM and CHLOE DELHOMME, Intelligentsia International, Inc., and Dr. JOHN CAPECE, Southern DataStream, Inc.

How bottled water wastes energy !



Instead of doing this, you can instead...



simply open your faucet !!



Why does our tap water sometimes smell like a swimming pool?



Because of chlorine which is required by law for our safety.

Why is chlorine needed in tap water?

To kill disease-causing pathogens that may be in the water or pipes!



Pathogens can be bacteria or viruses. It is because of them that you sometimes get sick. Chlorine kills the pathogens (disinfection).

How to measure chlorine concentration?

We can measure concentration with a colorimeter.

- 1 mg/L=1 ppm (part per million)
- 1 mg/L=1 drop in a million drops of water
- 1 mg/L=5 drops (0.25 ml) in a half-full standard bathtub.





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How can I remove chlorine from my tap water?

Use natural sunlight (Ultraviolet Radiation) or an activated carbon filter!

- Just leave a jug of tap water next to a window for a few days and then store it in a refrigerator.
- Or, purify your tap water using an inexpensive activated carbon filter pitcher.

96% chlorine removal within 2 days

Day 1

Day 2



Sunlight (UV)



Sunlight is FREE!

Save Money!

Don't forget to put the water in a refrigerator after the sunlight treatment to keep it cool and safe!



Chlorine



Activated Carbon Filtration

For the best results:
(2 gallons a day)



DAY



100% removal for 40 gallons

Before filtration

- Chlorine
- Metals
- Organic compounds

After filtration

Healthy & great-tasting water

Using a filter costs between \$0.12 and \$0.35 per gallon.