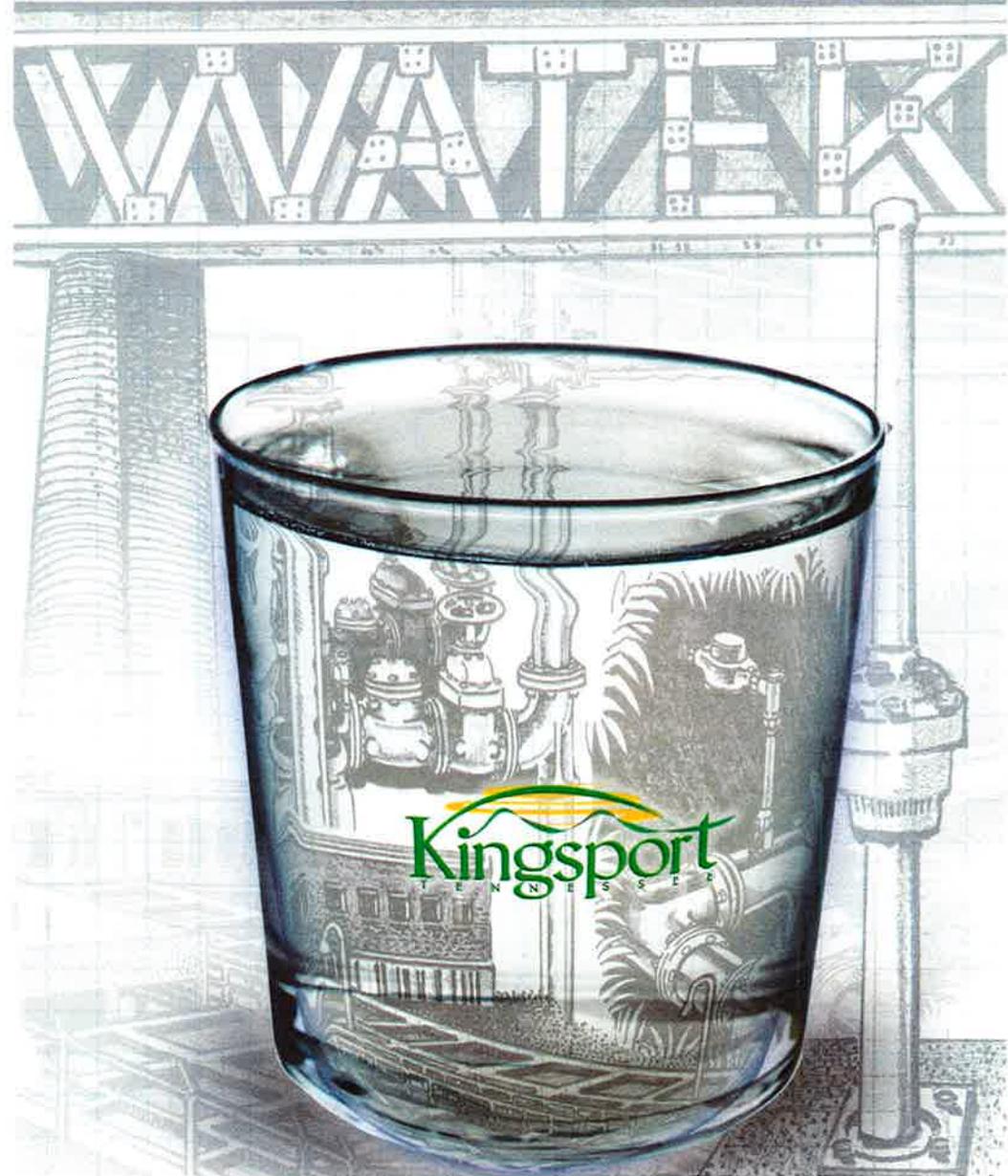


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Kingsport Water Department

2010 WATER QUALITY REPORT



 Kingsport
T E N N E S S E E
City Hall
225 West Center Street
Kingsport, TN 37660-4237

ANNUAL WATER QUALITY REPORT

Kingsport Water Department

Dear Customer,

The Kingsport City Water Department continually strives to provide its customers the safest drinking water possible. This brochure is a summary of the quality of water provided by the Water Department to its customers last year. It is a report reflecting the department's hard work and dedication to bringing you water that is absolutely safe to drink.

Included in this summary is information about where your water comes from, what it contains, and how it compares to standards set forth by the State of Tennessee and the United States Environmental Protection Agency (USEPA).

The Water Department is committed to providing you, our customers, the safest, cleanest drinking water possible. We believe customers who are well informed are our best allies in supporting improvements necessary to maintain high water quality standards.

~ Kingsport Water Department

Drawings Provided by:

Todd M. Smith, an employee of the City of Kingsport in the Water / Wastewater Division of Public Works.



ORIGIN

Your water, which is surface water, comes from the South

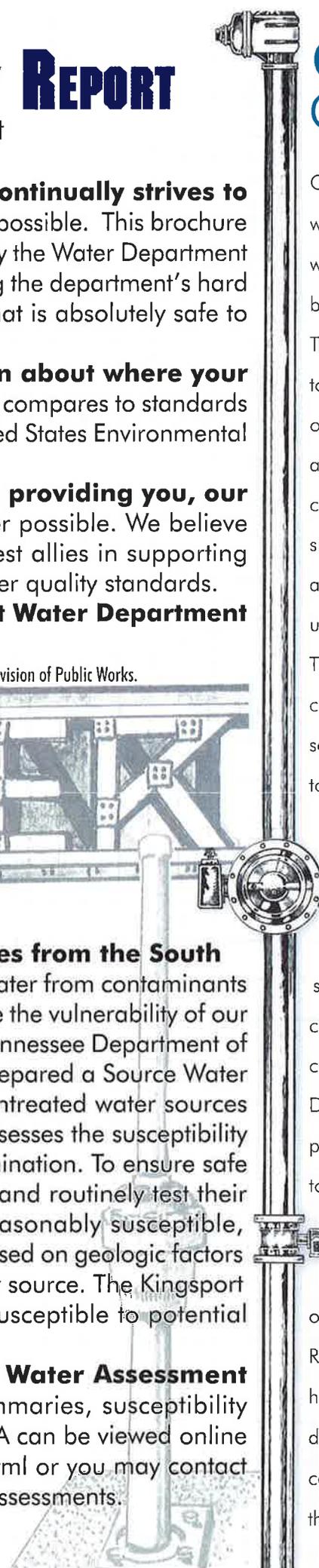
Fork Holston River. Our goal is to protect our water from contaminants and we have worked with the State to determine the vulnerability of our water source to potential contamination. The Tennessee Department of Environment and Conservation (TDEC) has prepared a Source Water Assessment Program (SWAP) Report for the untreated water sources serving this water system. The SWAP Report assesses the susceptibility of untreated water sources to potential contamination. To ensure safe drinking water, all public water systems treat and routinely test their water. Water sources have been rated as reasonably susceptible, moderately susceptible or slightly susceptible based on geologic factors and human activities in the vicinity of the water source. The Kingsport Water System sources rated as reasonably susceptible to potential contamination.

An explanation of Tennessee's Source Water Assessment Program, the Source Water Assessment summaries, susceptibility scorings and the overall TDEC report to the EPA can be viewed online at www.tn.gov/environment/dws/dwasswss.shtml or you may contact the Water System to obtain copies of specific assessments.

CROSS CONTAMINATION CONTROL

Over the next few months, the warm weather will bring people outdoors to work in their yards and gardens and begin getting swimming pools ready. The Kingsport Water System would like to ensure that our customers are aware of the dangers associated with these activities. An ordinary garden hose is a common way to contaminate a water supply when the hose is submerged in any liquid or attached to certain devices used to spray pesticides or herbicides. This forms a cross connection. A cross connection is a situation where a possible source of contamination is directly linked to our public water system. If the end of your hose is connected to a chemical container, swimming pool or other contaminant during a water main break or fire, the substance can be siphoned back into the water system. This condition, known as back siphonage, could cause a public health hazard. Devices are available to prevent this problem; however the best solution is to always be careful how you use your water hose.

Please help us provide a safe supply of water to all of our customers. Remember: never place your water hose in anything you would not want to drink. For more information on cross connections and how to protect against them, call our office at: (423) 224-2635.

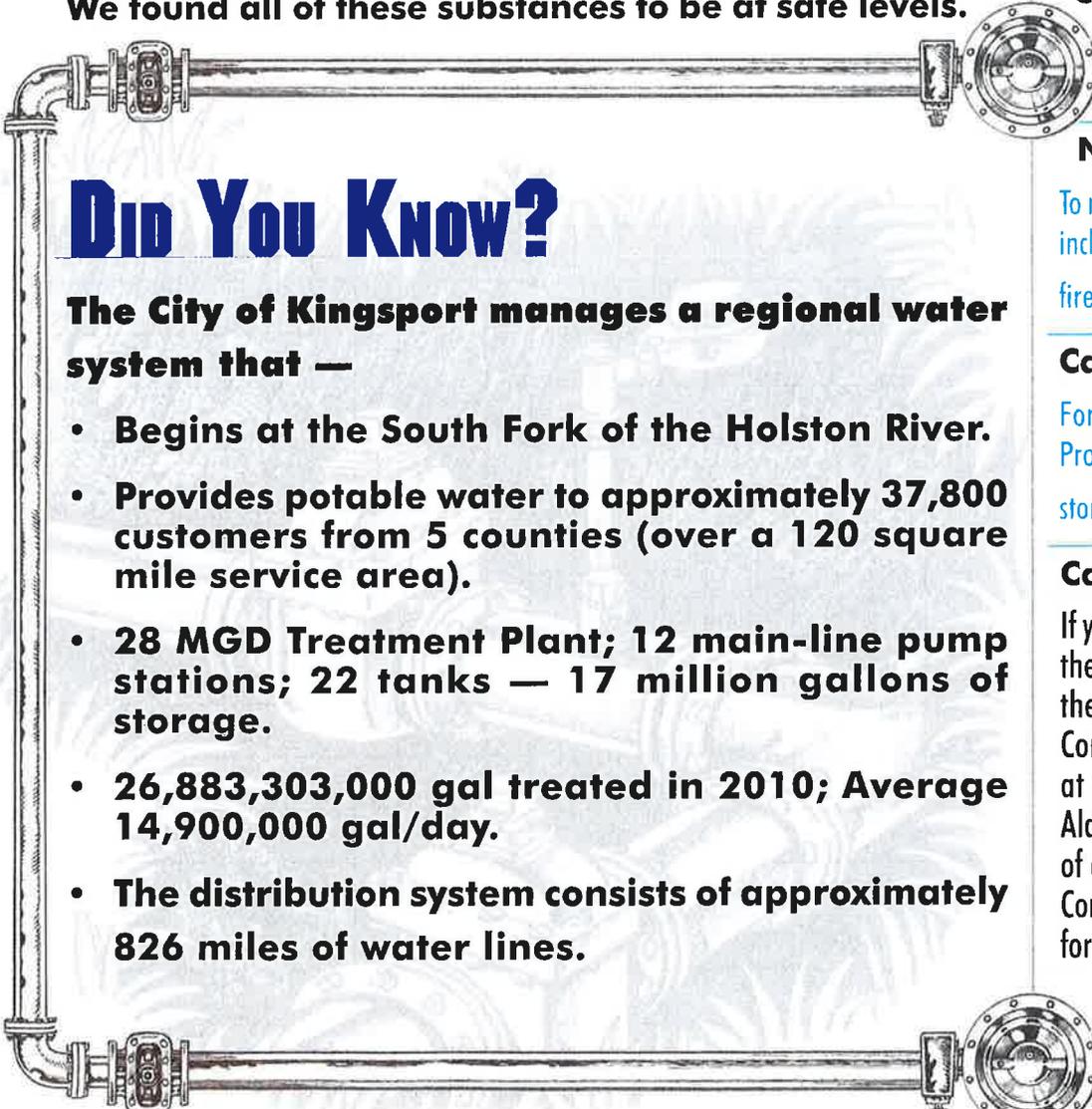


As water travels over the surface of the land it dissolves naturally occurring minerals and, in some cases, radioactive material. It can also pick up substances resulting from the presence of animals or humans. Although these substances could be present in “raw” water, our water meets all of the EPA’s health standards. We have tested for over 80 substances that may be present in our drinking water.

Substances that may be present in “raw” water include:

1. Microbial organisms, such as viruses and bacteria, which may be from sewage plants, septic systems, agricultural livestock operations and wildlife.
2. Inorganic compounds, such as salts and metals, which can be naturally occurring or result from storm water runoff, industrial or domestic wastewater discharges, oil and gas production, mining or farming.
3. Pesticides and herbicides, which may come from a variety of sources, such as agriculture, storm water runoff and residential uses.
4. Organic chemicals including synthetic and volatile organic chemicals, which are the by-products of industrial processes and petroleum production, and can also come from gas stations, storm water runoff and septic systems.
5. Radioactive material, which can be naturally occurring, or be the result of oil and/or gas production and mining activities.

We found all of these substances to be at safe levels.



Did You Know?

The City of Kingsport manages a regional water system that —

- **Begins at the South Fork of the Holston River.**
- **Provides potable water to approximately 37,800 customers from 5 counties (over a 120 square mile service area).**
- **28 MGD Treatment Plant; 12 main-line pump stations; 22 tanks — 17 million gallons of storage.**
- **26,883,303,000 gal treated in 2010; Average 14,900,000 gal/day.**
- **The distribution system consists of approximately 826 miles of water lines.**

Who Do I Call?

Questions about this report:

Contact Ron Haynes at 229-9452.

Questions or concerns about a potential cross connection?

Contact Ron Ison at 224-2635.

Questions concerning your bill, arranging for water service or reestablishing service?

Call Customer Service at 229-9416 or 229-9417.

To report water quality problems, low pressure, a broken water main, water leak in the streets or at the meter:

Call Customer Service at 229-9416 or 229-9417.

After hours emergency

Number - 246-9111

To report suspicious activity to any water facility, including treatment plants; water storage tank, fire hydrants, etc.

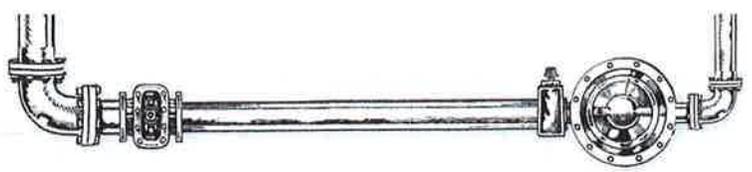
Call 911 or 229-9452.

For more information about the Storm Water Program or to report illegal discharges into the storm drain system,

Call (423) 224-2727.

If you are interested in learning more about the Water Department, or participating in the decision-making process, contact our Community Relations and Training Officer at 229-9413. The Board of Mayor and Aldermen meets on the 1st and 3rd Tuesday of each month at 7:00 p.m. in the City Hall Conference Room. This grants opportunities for the general public to voice opinions and/or concerns about decisions that affect the quality of their drinking water.

SPECIAL INFORMATION



Should I be Concerned?

Some individuals may be more vulnerable to contaminants in drinking water than the general population. Immuno-compromised persons, such as persons with cancer undergoing chemotherapy persons who have undergone organ transplants, persons with AIDS/HIV or other immune system disorders, some elderly, and infants can be particularly at risk of infection. These people should seek advice about drinking water from their health providers. EPA guidelines on appropriate means to lessen the risk of infection by microbiological organisms are available from the Safe Drinking Water Hotline (1-800-426-4791).

SAFETY STANDARDS

Is My water safe to drink?

The presence of contaminants does not necessarily indicate that the water poses a health risk. Most drinking water, including bottled water, contains small amounts of some contaminants. In order to ensure your tap water is safe, the Environmental Protection Agency (EPA) prescribes regulations which limit the amount of certain substances in water provided by public water systems. Bottled water companies must provide the same protection for public health; however, they are not required to submit a water quality report to the public.

We are proud to report that Kingsport's water meets or surpasses all EPA and State health regulations. As demonstrated by the test results, the Kingsport Water Department conducts regular tests for numerous contaminants, and has found few. The existing contaminants are all well below the maximum safe levels.



DEFINITIONS & ABBREVIATIONS

AL — Action Level, or the concentration of a contaminant which, when exceeded, triggers treatment or other requirements which a water system must follow.

BLD — Below Detection Limit.

MCL — Maximum Contaminant Level, or the highest level of a contaminant that is allowed in drinking water. MCLs are set as close to the MCLGs as feasible using the best available treatment technology.

MCLG — Maximum Contaminant Level Goal, or the level of a contaminant in drinking water below which there is no known or expected risk to health. MCLGs allow for a margin of safety.

MRDL — Maximum Residual Disinfectant Level, or the highest level of a disinfectant allowed in drinking water. There is convincing evidence that addition of a disinfectant is necessary for the control of microbial contaminants.

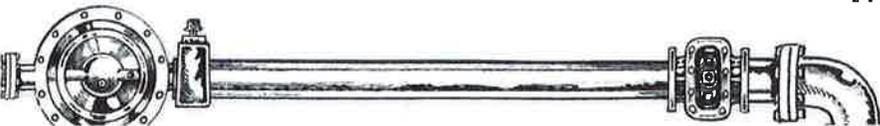
MRDLG — Maximum Residual Disinfectant Level Goal, or the level of drinking water disinfectant below which there is no known or expected risk to health. MRDLGs do not reflect the benefits of the use of disinfectants to control microbial contaminants.

TT — Treatment Technique, or a required process intended to reduce the level of a contaminant in drinking water. Example: Kingsport adds a zinc-orthophosphate corrosion inhibitor to the drinking water to create a type of barrier in the underground lines and lines in the individual homes. This barrier comes between the flowing water and the pipe it is flowing through in order to keep contaminants that may come from the pipes from entering the water.

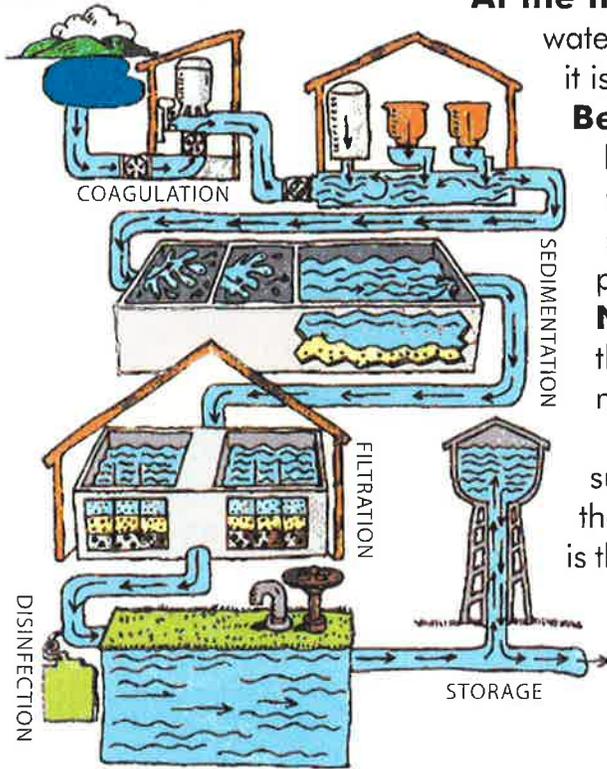
Turbidity Level — A measure of the cloudiness of water; it is a good indicator that our filtration system is functioning properly.

Units of Measure — Give definitions for any units of measure used in the CCR:

- i. **ppm or mg/L** — Parts per million or milligrams per liter, explained in terms of money as one penny in \$10,000.
- ii. **ppb or mcg/L** — Parts per billion or micrograms per liter, explained in terms of money as one penny in \$10,000,000.
- iii. **pCi/L** — Picocuries per liter (a measure of radioactivity).
- iv. **NTU** — Nephelometric Turbidity Units—Turbidity is a measure of the clarity of the water. Turbidity in excess of 5 NTUs is just noticeable to the average person.



A TREATMENT SYSTEM



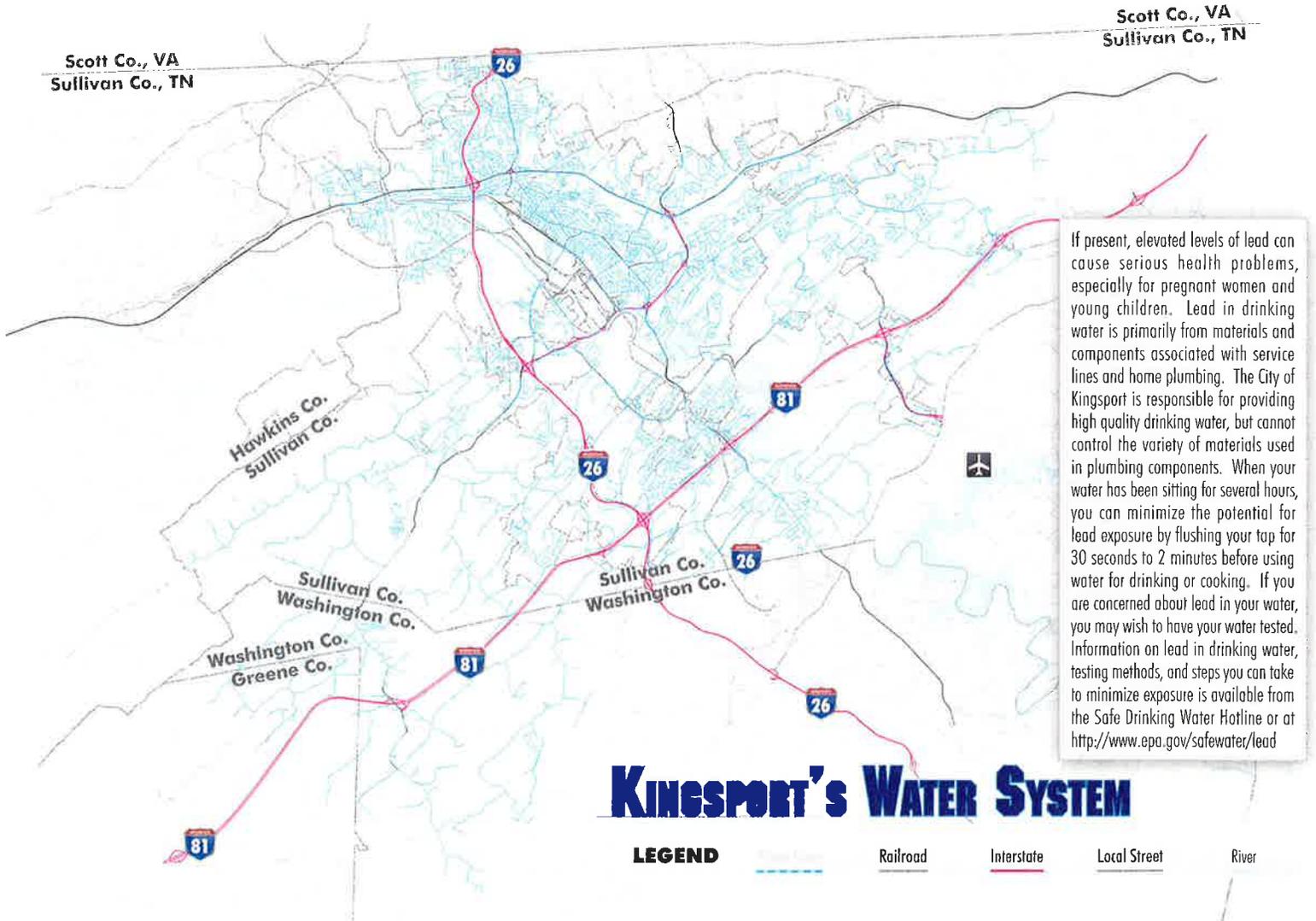
At the treatment plant, shortly after the "raw" (untreated) water is pumped to the treatment plant it enters the flash mix where it is treated with both chlorine and a coagulant.

Beginning chlorinization here allows the chlorine a longer contact-time, thus giving the chlorine more time to react with microorganisms. Coagulants cause light, fine materials suspended in the water to clump together into larger heavier particles.

Next, the slow flow thru the sedimentation basin allows the heavier particles to settle out. Sedimentation removes the majority of the sediment from the water.

Filtration, the next step, removes the remaining suspended material, lowering the turbidity level to well below the state's maximum containment level (mcl). The filtered water is then treated with chlorine for disinfection and fluoride to reduce tooth decay.

The "finished" water is then pumped into the distribution system for public use.



KINGSFORT'S WATER SYSTEM

LEGEND

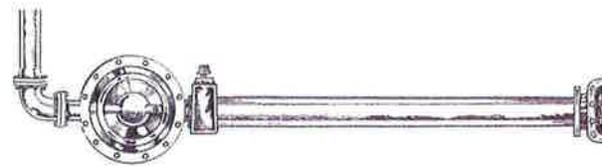
Railroad

Interstate

Local Street

River

2010 WATER QUALITY RESULTS



Your drinking water is regulated by the Tennessee Department of Environment and Conservation (TDEC) and the Environmental Protection Agency (EPA). The Kingsport Water Department regularly monitors for over 80 regulated contaminants to make sure your drinking water is safe. The results of our 2010 water quality monitoring are shown in the following tables. The substances listed in the tables below are the only substances that were detected above TDEC and EPA reporting levels. Reporting levels are the lowest level a contaminant can be detected with present laboratory methods, which are also known as minimum detection limits. We are proud to report that the City of Kingsport's water meets or exceeds all drinking water standards!

CONTAMINANT	VIOLATION? Yes/No	LEVEL FOUND	RANGE DETECTED	DATE OF SAMPLE	UNIT OF MEASUREMENT	MCLG	MCL	LIKELY SOURCE OF CONTAMINATION
Total Coliform Bacteria	NO	1.48%	N/A	2010 Daily	N/A	0	Presence of coliform bacteria in 5% of monthly samples	Naturally present in the environment
Turbidity	NO	0.14	0.06 – 0.14	2010 Daily	NTU	N/A	TT	Soil runoff
Copper	NO	90th% = 0.68	0 of 30 Samples Above AL	2010	ppm	1.3	AL=1.3	Corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives
Fluoride	NO	0.80	0.56 – 1.02	2010 Monthly	ppm	4	4	Erosion of natural deposits; water additive which promotes strong teeth; discharge from fertilizer and aluminum factories
Lead	NO	90th% = 2.4	2 of 30 Samples Above AL	2010	ppb	0	AL=15	Corrosion of household plumbing systems, erosion of natural deposits
Sodium	NO	6.6	N/A	2010 Annually	ppm	N/A	N/A	Erosion of natural deposits; used in water treatment
TTHM (Total Trihalomethanes)	NO	40 Annual avg.	21 – 93	2010 Quarterly	ppb	N/A	80	By-product of drinking water chlorination
Haloacetic Acids (HAAs)	NO	31 Annual avg.	14 – 67	2010 Quarterly	ppb	N/A	60	By-product of drinking water disinfection
Total Organic Carbon	NO	1.2 Annual avg.	0.90 – 1.6	2010 Monthly	ppm	TT	TT	Naturally present in the environment
CONTAMINANT	VIOLATION? Yes/No	LEVEL FOUND	RANGE DETECTED	DATE OF SAMPLE	UNIT OF MEASUREMENT	MRDLG	MRDL	LIKELY SOURCE OF CONTAMINATION
Chlorine	NO	1.3 Annual avg.	0.6 – 2.2	2010 Daily	ppm	4	4	Water additive used to control microbes

Cryptosporidium is a microbial parasite which is found in surface water throughout the US. Although Cryptosporidium can be removed by filtration, the most commonly used filtration methods cannot guarantee 100% removal. Monitoring of our source water indicated the presence of Cryptosporidium in 3 out of 10 samples. No cryptosporidium were detected in finished water samples. For more information on cryptosporidium contact the Safe Drinking Water Hotline (800-426-4791).

100% of monthly samples below the turbidity limit of 0.3 NTU.

We met treatment technique requirements for total organic carbon.

Some people who drink water containing trihalomethanes in excess of the MCL over many years may experience problems with their liver, kidneys, or central nervous systems, and may have an increased risk of getting cancer.