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Town of Jamestown
PO Box 848
Jamestown, NC 27282



2010
Annual Drinking Water Quality Report
Town of Jamestown
For January 1 to December 31, 2010
PWS ID# NC 02-41-030

Jamestown is pleased to present to you the 2010 Annual Drinking Water Quality Report. This report serves as a snapshot of last year's water quality. Included are details about the source of your water, what it contains, and how it compares to standards set by regulatory agencies. Our constant goal is to provide you with a safe and dependable supply of drinking water. We want you to understand and appreciate the efforts we make to continually improve the water distribution process and protect our water resources. We are committed to ensuring the quality of your water. Our goal is to keep our customers well informed, after all, informed customers are our best allies.

What EPA Wants You to Know

Drinking water, including bottled water, may reasonably be expected to contain at least small amounts of some contaminants. The presence of contaminants does not necessarily indicate that water poses a health risk. More information about contaminants and potential health effects can be obtained by calling the Environmental Protection Agency's Safe Drinking Water Hotline (800-426-4791).

Some people 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, people with HIV/AIDS or other immune system disorders, some elderly, and infants can be particularly at risk from infections. These people should seek advice about drinking water from their health care providers. EPA/CDC guidelines on appropriate means to lessen the risk of infection by *Cryptosporidium* and other microbiological contaminants are available from the Safe Drinking Water Hotline (800-426-4791).

The sources of drinking water (both tap water and bottled water) include rivers, lakes, streams, ponds, reservoirs, springs, and wells. As water travels over the surface of the land or through the ground, it dissolves naturally-occurring minerals and, in some cases, radioactive material, and can pick up substances resulting from the presence of animals or from human activity. Contaminants that may be present in source water include microbial contaminants, such as viruses and bacteria, which may come from sewage treatment plants, septic systems, agricultural livestock operations, and wildlife; inorganic contaminants, such as salts and metals, which can be naturally-occurring or result from urban storm water runoff, industrial or domestic wastewater discharges, oil and gas production, mining, or farming; pesticides and herbicides, which may come from a variety of sources such as agriculture, urban storm water runoff, and residential uses; organic chemical contaminants, including synthetic and volatile organic chemicals, which are by-products of industrial processes and petroleum production, and can also come from gas stations, urban storm water runoff, and septic systems; and radioactive contaminants, which can be naturally-occurring or be the result of oil and gas production and mining activities.

In order to ensure that tap water is safe to drink, EPA prescribes regulations which limit the amount of certain contaminants in water provided by public water systems. FDA regulations establish limits for contaminants in bottled water which must provide the same protection for public health.

When You Turn on Your Tap, Consider the Source

The Town of Jamestown is a purchase water system. We purchase our water from the City of High Point and the City of Greensboro. Both municipalities get their water from surface water sources and process the water through their filtration plants to remove contaminants that may be in their water sources. High Point gets its water from Oak Hollow Lake, City Lake, and Randleman Lake. Greensboro gets its water from Lake Brandt, Lake Townsend, and Randleman lake.

Source Water Assessment Program (SWAP) Results

The North Carolina Department of Environment and Natural Resources (DENR), Public Water Supply (PWS) Section, Source Water Assessment Program (SWAP) conducted assessments for all drinking water sources across North Carolina. The purpose of the assessments was to determine the susceptibility of each drinking water source (well or surface water intake) to Potential Contaminant Sources (PCSs). The results of the assessment are available in SWAP Assessment Reports that include maps, background information and a relative susceptibility rating of Higher, Moderate or Lower.

The relative susceptibility rating of each source for High Point and Greensboro was determined by combining the contaminant rating (number and location of PCSs within the assessment area) and the inherent vulnerability rating (i.e., characteristics or existing conditions of the well or watershed

and its delineated assessment area.). The assessment findings are provided by the cities of High Point and Greensboro and are summarized in the table below:

Susceptibility of Sources to Potential Contaminant Sources (PCSs)

| Source Name | Susceptibility Rating | SWAP Report Date |
|------------------------------|-----------------------|------------------|
| City Lake (High Point) | Moderate | March 2010 |
| Oak Hollow Lake (High Point) | Moderate | March 2010 |
| Lake Brandt (Greensboro) | Higher | March 2010 |
| Lake Townsend (Greensboro) | Higher | March 2010 |

The complete SWAP Assessment report for High Point, Greensboro, and Jamestown may be viewed on the Web at:

<http://www.deh.enr.state.nc.us/pws/swap>

Please note that because SWAP results and reports are periodically updated by the PWS Section, the results available on this web site may differ from the results that were available at the time this CCR was prepared. To obtain a printed copy of this report, please mail a written request to: Source Water Assessment Program – Report Request, 1634 Mail Service Center, Raleigh NC 27699-1634, or email request to swap@ncmail.net. Please indicate your system name, PWSID, and provide your name, mailing address and phone number. If you have any questions about the SWAP report please contact the Source Water Assessment staff by phone at 919-715-2633.

It is important to understand that a susceptibility rating of “higher” does not imply poor water quality, only the systems’ potential to become contaminated by PCS’s in the assessment area.

Violations that Your Water System Received for the Report Year

The City of High Point routinely monitors water provided to the Town of Jamestown for turbidity (cloudiness). Normal turbidity levels at the High Point water treatment plant are 0.06 nephelometric turbidity units (NTU). Water samples taken on January 6, 2010 showed levels of a maximum of 1.82 NTU. This was above the standard of 1 NTU. **High Point’s Water Treatment Plant returned to compliance immediately after the violation occurred.** The report distributed to all customers is provided on page 10.

What If I Have Any Questions Or Would Like to Become More Involved?

If you have any questions about this report or concerning your water, please contact the Town of Jamestown, Mr. Paul Blanchard, Public Services Director, at Town Hall, 301 East Main Street or call 336-454-1138. Our office hours are Monday through Friday, 8:30 a.m. to 5:00 p.m. We want our valued customers to be informed about their water utility.

Water Quality Data Table of Detected Contaminants

Jamestown, High Point, and Greensboro routinely monitor for over 150 contaminants in your drinking water according to Federal and State laws. The table below lists all the drinking water contaminants that we detected in the last round of sampling for the particular contaminant group. The presence of contaminants does not necessarily indicate that water poses a health risk. **Unless otherwise noted, the data presented in this table is from testing done January 1 through December 31, 2010.** The EPA or the State requires us to monitor for certain contaminants less than once per year because the concentrations of these contaminants are not expected to vary significantly from year to year. Some of the data, though representative of the water quality, is more than one year old.

Important Drinking Water Definitions and Abbreviations:

- **Non-Detects (ND)** - Laboratory analysis indicates that the contaminant is not present at the level of detection set for the particular methodology used.
- **Parts per million (ppm) or Milligrams per liter (mg/L)** - One part per million corresponds to one minute in two years or a single penny in \$10,000.
- **Parts per billion (ppb) or Micrograms per liter (ug/L)** - One part per billion corresponds to one minute in 2,000 years, or a single penny in \$10,000,000.
- **Parts per trillion (ppt) or Nanograms per liter (nanograms/L)** - One part per trillion corresponds to one minute in 2,000,000 years, or a single penny in \$10,000,000,000.
- **Million Fibers per Liter (MFL)** - Million fibers per liter is a measure of the presence of asbestos fibers that are longer than 10 micrometers.
- **Action Level (AL)** - The concentration of a contaminant which, if exceeded, triggers treatment or other requirements which a water system must follow.
- **Treatment Technique (TT)** - A treatment technique is a required process intended to reduce the level of a contaminant in drinking water.
- **Maximum Residual Disinfection Level Goal (MRDLG)** - The level of a 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.
- **Maximum Residual Disinfection Level (MRDL)** - The highest level of a disinfectant allowed in drinking water. There is convincing evidence that addition of a disinfectant is necessary for control of microbial contaminants.
- **NTU** - Nephelometric Turbidity Unit, measures the cloudiness of the water; at no time can the turbidity go above 1.0 NTU, and must not exceed 0.30 in 95% of daily samples in any month.
- **pCi/L** - Picocuries per Liter is a measure of radioactivity in water.
- **Maximum Contaminant Level (MCL)** - 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.
- **Maximum Contaminant Level Goal (MCLG)** - 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.

Jamestown Test Results for 2010

Microbiological Contaminants

| Contaminant (units) | MCL Violation Y/N | Your Water | MCLG | MCL | Likely Source of Contamination |
|---------------------------|-------------------|------------|------|------|--------------------------------------|
| Total Coliform Bacteria | No | zero | zero | zero | Naturally present in the environment |
| Fecal Coliform or E. coli | No | zero | zero | zero | Human and animal fecal waste |

Lead and Copper Contaminants

| Contaminant (units) | Sample Date | Your Water | # of sites found above the AL | MCLG | MCL | Likely Source of Contamination |
|--------------------------------------|-------------|------------|-------------------------------|------|---------|--|
| Copper (ppm) Tested every 3 years | Sept. 2008 | 0.080 ppm | zero | 1.3 | AL= 1.3 | Corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives |
| Lead (ppb) Tested every 3 years | Sept. 2008 | ND | zero | zero | AL= 15 | Corrosion of household plumbing systems, erosion of natural deposits |

If present, elevated levels of lead can cause serious health problems, especially for pregnant women and young children. Lead in drinking water is primarily from materials and components associated with service lines and home plumbing. Jamestown is responsible for providing high quality drinking water, but cannot control the variety of materials used in plumbing components. When your water has been sitting for several hours, you can minimize the potential for lead exposure by flushing your tap for 30 seconds to 2 minutes before using water for drinking or cooking. If you are concerned about lead in your water, you may wish to have your water tested. Information on lead in drinking water, testing methods, and steps you can take to minimize exposure is available from the Safe Drinking Water Hotline or at <http://www.epa.gov/safewater/lead>

Asbestos Contaminant

| Contaminant (units) | Sample Date | MCL Violation Y/N | Your Water | Range Low High | MCLG | MCL | Likely Source of Contamination |
|--|-------------|-------------------|------------|----------------|------|-----|---|
| Total Asbestos (MFL) Tested every 9 years | Oct. 2003 | No | <0.17 | <0.17 | 7 | 7 | Decay of asbestos cement water mains; erosion of natural deposits |

Required Safe Drinking Water Act Regulated Constituents Tested or Detected - Jan - Dec 2010

| After treatment Ward Water Plant | | After Treatment at the PTRWA plant | | MCL(1) | MCLG(2) | Potential Health Effect | Source |
|--|------------|------------------------------------|------------|-------------|--------------|-------------------------|--|
| Constituent | Last found | Last tested | Last found | Last tested | | | |
| pH (std units) | 7.39 | 11/20/2010 | 7.64 | 12/1/2010 | >6.5 | no limit | none |
| Arsenic (mg/L) | <.005 | 11/20/2010 | <.005 | 10/01/10 | 0 | 0.01 | Circulatory effects: increased cancer risk |
| Barium (mg/L) | <0.40 | 11/20/2010 | <0.40 | 10/01/10 | <2 | <2 | Circulatory effects |
| Fluoride (mg/L) | 1 | 11/20/2010 | 0.107 | 10/01/10 | <4 | <4 | Skeletal and dental fluorosis |
| Sodium (mg/L) | 13.8 | 11/10/2010 | 34.2 | 10/01/10 | no limit | no limit | none |
| Sulfate (mg/L) | 21 | 11/10/2010 | 41.7 | 10/01/10 | no limit | no limit | diarrhea |
| Nitrate (mg/L) | <1.0 | 10/20/2010 | <1.0 | 10/01/10 | <10 | no limit | methemoglobinemia |
| Nitrite (mg/L) | <0.10 | 10/20/2010 | <0.10 | 10/01/10 | no limit | no limit | none |
| Gross alpha (pCi/L) | <3 | 12/12/2008 | <3 | 10/01/10 | 15 | none | none |
| Gross beta (pCi/L) | <4 | 12/12/2008 | no data | no data | 50 | none | none |
| Radium 226 (pCi/L) | <1 | 12/12/2006 | <1 | 10/01/10 | 2 | none | cancer |
| Total Asbestos (MFL>10um) | <0.20 | 2003 | no data | no data | 7 | none | cancer |
| Total Coliform (/100ml) | <1 | 1-Dec | <1 | 12/1/2010 | <5% of tests | none | stomach upset |
| Total Trihalomethanes (rolling average of previous 4 quarters) (mg/L) | 0.073 | 11/10/2010 | no data | no data | <0.080 | no limit | none |
| Total Haloacetic Acids (rolling average of previous 4 quarters) (mg/L) | 0.053 | 11/10/2010 | no data | no data | <0.050 | no limit | cancer, suspected in pre-mature birth |
| Lead (ug/L) | <3 | 9/5/2008 | no data | no data | <15 | <15 | kidney, nervous system damage |
| Copper (ug/L) | <50 | 9/5/2008 | no data | no data | <1300 | <1300 | gastrointestinal irritation |

Pesticides and Synthetic Organic Chemicals (SOC's) 39 compounds tested with no quantifiable results to report. Sampled on 11/10/2010.
 Volatile Organic Chemicals (VOC's) 21 compounds were sampled on 11/10/2010 and had no quantifiable results to report.

On October 4, 2010, the City of High Point started purchasing 2.28 MG of water from Piedmont Triad Regional Water Authority (PTRWA). Test results are listed.
 Pesticides and Synthetic Organic Chemicals (SOC's) 39 compounds tested with no quantifiable results to report. Sampled on 10/1/2010.
 Volatile Organic Chemicals (VOC's) 21 compounds were sampled on 10/1/2010 and had no quantifiable results to report.

Disinfectants and Disinfection Byproducts Contaminants

| Contaminant (units) | MCL/MRDL Violation Y/N | Your Water (AVG) | Range Low High | MCLG | MCL | Likely Source of Contamination |
|-------------------------------------|------------------------|------------------|----------------|------|-----|---|
| TTHM (ppb) [Total Trihalo-methanes] | No | 73 | 46 97 | N/A | 80 | By-product of drinking water chlorination |
| HAA5 (ppb) [Total Haloacetic Acids] | No | 41 | 32 50 | N/A | 60 | By-product of drinking water disinfection |

High Point water data is provided on Pages 6 and 7 or you may call 883-3111 for more information.
Greensboro water data is provided on Pages 8 and 9 or you may call 373-7527 for more information.

**City of High Point and PTRWA
 SELECTED AVERAGE VALUES
 after treatment
 (from monthly reports to N.C. Public Water Supply)**

| Constituent | Ward Water Plant (Jan-Dec 2010) | | PTRWA Plant (Oct-Dec 2010) | |
|---------------------------------------|---------------------------------|------------|----------------------------|------------|
| | Average found | Most found | Average found | Most found |
| Turbidity (NTU) | 0.068 | 1.82 | 0.077 | 0.101 |
| Total Organic Carbon (mg/L) | 1.89 | 2.3 | 2.86 | 2.91 |
| Dissolved Organic Carbon (mg/L) | 1.9 | 2.2 | 2.79 | 2.92 |
| UV 254(m-1) | 2.64 | 3 | 4.2 | 5.2 |
| pH (std units) | 7.54 | 7.6 | 7.58 | 7.6 |
| Chlorine (mg/L) | 2.22 | 2.4 | 2.19 | 2.37 |
| Alkalinity (mg/L) | 22 | 29 | 42 | 43 |
| Hardness (mg/L) | 30 | 34 | 39 | 40 |
| Fluoride (mg/L) | 0.96 | 1.1 | 0.107 | 0.107 |
| Iron (mg/L) | <.50 | <.50 | <.060 | <.060 |
| Manganese (mg/L) | <.025 | <.025 | 0.01 | 0.01 |
| Sodium (mg/L) | 13.8 | 13.8 | 34.2 | 34.2 |
| Nitrate+Nitrate as Nitrogen (mg/L) | 0.21 | 0.27 | 0.27 | 0.41 |
| Total Phosphorus as Phosphorus (mg/L) | 0.17 | 0.2 | 1.12 | 1.58 |
| Total Coliform (/100ml) | <1 | <1 | <1 | <1 |
| Heterotrophic bacteria (/ml) | 0 | 0 | 0 | 0 |
| Aeromonas (bacteria) (/100ml) | <20 | <20 | not tested | |

NOTICE TO THE PUBLIC

IMPORTANT INFORMATION ABOUT YOUR DRINKING WATER

Town of Jamestown Did Not Meet Treatment Requirements

Our water system recently violated a drinking water standard. Although this was not an emergency, as our customers, you have a right to know what happened, what you should do, and what we did to correct this situation.

The City of High Point routinely monitors water provided to the Town of Jamestown for turbidity (cloudiness). This tells us whether High Point is effectively filtering the water supply. Normal turbidity levels at the High Point water treatment plant are 0.06 nephelometric turbidity units (NTU). Water samples taken on January 6, 2010 showed levels of a maximum of 1.82 NTU. This was above the standard of 1 NTU. Because of these high levels of turbidity, there is an increased chance that the water may contain disease-causing organisms.

What should I do?

- You do not need to boil your water or take other actions. We do not know of any contamination, and none of our testing has shown disease-causing organisms in the drinking water.
- People with severely compromised immune systems, infants, and some elderly may be at increased risk. These people should seek advice about drinking water from their health care providers. General guidelines on ways to lessen the risk of infection by microbes are available from EPA's Safe Drinking Water Hotline at 1-800-426-4791.

What does this mean?

Turbidity has no health effects. However, turbidity can interfere with disinfection and provide a medium for microbial growth. Turbidity may indicate the presence of disease-causing organisms. These organisms include bacteria, viruses, and parasites that can cause symptoms such as nausea, cramps, diarrhea, and associated headaches. These symptoms are not caused only by organisms in drinking water. If you experience any of these symptoms and they persist, you may want to seek medical advice.

What happened? What was done? When will the problem be corrected?

The Town of Jamestown purchases water from the City of High Point for resale and distribution to its water customers. Consequently the water that was purchased from the City of High Point and distributed to our customers did not meet treatment requirements due to high levels of turbidity (cloudiness) observed at the High Point Water Treatment Plant.

The City of High Point's water treatment plant recently experienced a problem with its filters due to extremely cold temperatures. Very cold temperatures cause the water to become very dense, which will not allow the turbidity particles to settle properly which resulted in the filters becoming overloaded. The Regional Division of the Public Water Supply Section was informed and subsequently visited High Point's water treatment plant for a consultation. Disinfectant has been increased and daily bacteriological tests are being performed to insure that the drinking water is safe for daily use.

High Point's treatment plant operators continuously monitor water conditions at the treatment plant and make adjustments to the treatment process as needed. High Point has consulted with design engineers and filter restoration is currently underway.

We have been informed that High Point's Water Treatment Plant returned to compliance immediately after the violation occurred.

Please share this information with all the other people who drink this water, especially those who may not have received this notice directly (for example, people in apartments, nursing homes, schools, and businesses). You can do this by posting this notice in a public place or distributing copies by hand or mail.

For more information, please contact:

| | | |
|-------------------------------------|----------------------------------|--|
| Responsible Person Charles Smith | System Name Town of Jamestown | System Address (Street) 301 East Main St. |
| Phone Number 336-454-1138 | System PWSID # 02-41-030 | System Address (City, State, Zip) Jamestown, NC 27282 |

Violation Awareness Date: January 7, 2010

Date Notice Distributed: 1/27/10

Method of Distribution: U.S. Mail

Public Notification Certification:

The public water system named above hereby affirms that public notification has been provided to its consumer in accordance with all delivery, content, format, and deadline requirements specified in 15A NCAC 18C .1523.

Owner/Operator: Charles Smith
(Signature)

CHARLES SMITH
(Print Name)

1/25/10
(Date)