

2006
Annual Drinking Water Quality Report
Jackson Twp Water Authority
PWSID #4110021

Este informe contiene información muy importante sobre su agua de beber. Tradúzcalo ó hable con alguien que lo entienda bien. (This report contains very important information about your drinking water. Translate it, or speak to someone who understands it.)

We're very pleased to provide you with this year's **Annual Drinking Water Quality Report**. This report is designed to inform you about the quality water and services we deliver to you every day. Our constant goal is to provide you with a safe and dependable supply of drinking water. We want you to understand the efforts we make to continually improve the water system and protect our water resources. We are committed to ensuring the quality of your water. Our water source is purchased bulk from Nanty Glo Water Authority, which is treated surface water from Williams Run Reservoir.

This report shows our water quality and what it means.

If you have any questions about this report or concerning your water utility, please contact **Jackson Township Water Authority at (814) 322-1262**. You may also e-mail comments or questions to [**Jwaterauth@aol.com**](mailto:Jwaterauth@aol.com). More information is available on the World Wide Web at [**www.waterdata.com**](http://www.waterdata.com) and at [**www.epa.gov/safewater**](http://www.epa.gov/safewater). We want our valued customers to be informed about their water utility. If you want to learn more, please attend any of our regularly scheduled meetings. They are held on **the fourth Thursday of every month at 7:00 p.m. at the Water Authority office, located at 2949 William Penn Ave. The November meeting will be the 15th due to the Thanksgiving Day holiday.**

The current water system has 1,401 customers. The Water Authority purchased 83,073,000 gallons and sold 57,637,600 gallons of water for the year 2006. The Authority was established in 1956 and has grown considerably over the years. One new project on the horizon for this year will be the Wagener Road – Chickaree Hill Road area. This project will be built entirely from Community Development Block Grant Funds and the line will be turned over to the Jackson Twp Water Authority for the day-to-day operation.

Check your water system for leaks.

1. ***Find your water meter.*** It may be in the basement or wherever the water line enters your home.
2. ***Read the meter twice.*** Read it first at night, after the day's water use has ended –and again in the morning, before any water is used.
3. ***Find the difference.*** Subtract the first from the second reading to tell how much (if any) water leaked out overnight.
4. ***Look for leaks.*** Find them by checking pipes, hoses and connections. Have leaks repaired quickly.

The Jackson Twp Water Authority routinely monitors for constituents in your drinking water according to Federal and State laws. This table shows the results of our monitoring for the period of January 1st to December 31st, **2006**. All drinking water, including bottled drinking water, may be reasonably expected to contain at least small amounts of some constituents. It's important to remember that the presence of these constituents does not necessarily pose a health risk.

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).

In this table you will find many terms and abbreviations you might not be familiar with. To help you better understand these terms we've provided the following definitions:

Not Applicable (N/A) – not applicable

Non-Detects (ND) - laboratory analysis indicates that the contaminant is not present at a detectable level.

Parts per million (ppm) or Milligrams per liter (mg/l) - one part per million or milligrams per liter (corresponds to one minute in two years or a single penny in \$10,000).

Parts per billion (ppb) or Micrograms per liter - one part per billion or micrograms per liter (corresponds to one minute in 2,000 years, or a single penny in \$10,000,000).

Nephelometric Turbidity Unit (NTU) - nephelometric turbidity unit is a measure of the clarity of water. Turbidity in excess of 5 NTU is just noticeable to the average person.

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) - treatment technique is a required process intended to reduce the level of a contaminant in drinking 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.

Maximum Residual Disinfectant 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.

Maximum Residual Disinfectant 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 contamination.

| Contaminant (Unit of Measurement) | Violation Y/N | Level Detected | Range | MCL in CCR units | MCLG | Major Sources in Drinking Water |
|---|------------------|---------------------|----------------------------------|---|------|---|
| Microbiological Contaminants | | | | | | |
| Turbidity (NTU) | No | 0.093 NTU | (a) 1% | TT=1 NTU for a single measurement | 0 | Soil runoff |
| | | 0.09 | (a) 99% | TT= at least 95% of monthly samples ≤0.1NTU | | |
| Lead and Copper Rule | | | | | | |
| Lead (ppb) | No | 0.002 percentile | 0.00 to 0.002 (b) | AL=15 | 0 | Corrosion of household plumbing systems; Erosion of natural deposits |
| Copper (ppm) | No | 0.05 percentile | 0.03 to 0.05 (c) | AL=1.3 | 1.3 | Corrosion of household plumbing systems; Erosion of natural deposits |
| Disinfection Byproducts (DBPs), Byproduct Precursors, and Disinfectant Residuals | | | | | | |
| Haloacetic Acids (HAA) (ppb) | No | 0.02555 | 0.01109 to 0.02555 mg/l | 0.06 mg/l | n/a | By-product of drinking water disinfection |
| TTHMs [Total trihalomethanes] (ppb) | No | 0.10475 | 0.04362 To 0.10475 mg/l | 0.08 mg/l | n/a | By-product of drinking water disinfection |
| | | | | | | |

Footnotes:

(a) As reported by Nanty Glo Water Authority- we do not test for turbidity at this time.

(b) None of the forty samples taken in 2006 exceed the action level for lead.

(c) None of the forty samples exceed the action level for copper.

Lead (ppb) - Infants and children who drink water containing lead in excess of the action level could experience delays in their physical or mental development. Children could show slight deficits in attention span and learning abilities. Adults who drink this water over many years could develop kidney problems or high blood pressure. Lead problems typically are associated with the home's internal plumbing pipe system.

TTHMs [Total Trihalomethanes]. 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.

Chlorine (ppm) - Some people who use water containing chlorine well in excess of the MRDL could experience irritating effects to their eyes and nose. Some people who drink water containing chlorine well in excess of the MRDL could experience stomach discomfort.

Infants and young children are typically more vulnerable to lead in drinking water than the general population. It is possible that lead levels at your home may be higher than at other homes in the community as a result of materials used in your home's plumbing. If you are concerned about elevated lead levels in your home's water, you may wish to have your water tested and flush your tap for 30 seconds to 2 minutes before using tap water. Additional information is available from the Safe Drinking Water Hotline (1-800-426-4791).

What does this mean?

As you can see by the table, our system had no violations. Although the third quarter of 2006 showed an exceedance for total Trihalomethanes, it did not effect the four quarters of the running annual average. We are working in conjunction with Nanty Glo Water, Blacklick Water, Penn State Harrisburg and DEP to eliminate these disinfection byproducts exceedances. We're proud that your drinking water meets or exceeds all Federal and State requirements. We have learned through our monitoring and testing that some constituents have been detected.

All sources of drinking water are subject to potential contaminants that are naturally occurring or man made. Those contaminants can be microbes, organic or inorganic chemicals, or radioactive materials. 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 the 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 at 1-800-426-4791.

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 byproducts of industrial process and petroleum 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.

Lead: Lead in drinking water is rarely the sole cause of lead poisoning, but it can add to a person's total lead exposure. All potential sources of lead in the household should be identified and removed, replaced or reduced.

In our continuing efforts to maintain a dependable water supply, it may be necessary to make improvements in your water system.

Thank you for allowing us to continue providing your family with clean, quality water this year. In order to maintain a dependable water supply, we sometimes need to make improvements that will benefit all of our customers. These improvements are sometimes reflected as rate structure adjustments. Thank you for understanding. Please call our office if you have questions.

We at Jackson Twp Water Authority work around the clock to provide top quality water to every tap. We ask that all our customers help us protect our water sources, which are the heart of our community, our way of life and our children's future.