Este informe contiene información muy importante sobre su agua de beber. Tradúzcalo o 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.)

E-Mail Delivery Approved by PADEP

Beginning this year the PADEP and the USEPA will allow the Municipal Authority of Westmoreland County to provide e-mail delivery of this Annual Water Quality Report.

If you would like a direct link to this report emailed to you please update your customer notification information at http://www.mawc.org/content/CustServWater/public-notification.

To view the Annual Water Quality Report electronically please go to http://www.mawc.org/ccr.
2013 MAWC $141,000,000.00

5 YEAR CAPITAL IMPROVEMENT PLAN

Beginning in May 2013 the Municipal Authority of Westmoreland County will begin investing $141 Million in capital improvements throughout the entire water and wastewater system that it supplies.

Over the next five years, MAWC will be replacing over 60 miles of aging pipeline, upgrading and replacing 21 pump stations, installing 5 Million Gallons of additional storage capacity, incorporating energy saving motors to reduce power costs, installing 15 back-up generators for increased reliability and making improvements to the water and wastewater treatment facilities to maintain treatment objectives and meet upcoming regulations.

This additional work will be done to continue to provide cost effective and reliable service to our more than 125,000 customers for less than 2 tenths of one cent per gallon of water.

A SPECIAL MESSAGE FOR PEOPLE WITH SEVERELY WEAKENED IMMUNE SYSTEMS

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. The Environmental Protection Agency and The Centers for Disease Control and Prevention guidelines on appropriate means to lessen risk of infection by Cryptosporidium and other microbial contaminants are available from the Safe Drinking Water Hotline at (800) 426-4791.

FOR MORE INFORMATION, PLEASE CONTACT:
- Your doctor or other healthcare provider.
- Centers for Disease Control and Prevention at (800) 342-2437; or on-line at http://www.cdc.gov/ncidod/dpd/parasites/cryptosporidiosis/default.htm
- United States Environmental Protection Agency's Drinking Water Hotline at (800) 426-4791
- Pennsylvania Department of Environmental Protection at (412) 442-4000 or on-line at http://www.dep.state.pa.us/dep/deputate/watermgt/WSM/WSM—DWM/Complian/Protozoa.htm

DRINKING WATER DISINFECTION

The Indian Creek and George R. Sweeney Water Plants switch their disinfection residual from Chloramines (a combination of chlorine and ammonia) to Free Chlorine (100% chlorine) every year from mid-October to June 1st. This switch is necessary to maintain proper bacteriological quality of our drinking water. Customers may notice a chlorine taste in the water during this period.

The chloramination process combines ammonia and chlorine to form chloramines. Specifically, ammonia and chlorine are mixed in carefully controlled concentrations to maximize their disinfection potential and minimize the production of DBPs in your drinking water. Also, chloramines provide a stable residual throughout MAWC's distribution system that inhibits the growth of bacteria in pipelines and water storage tanks. An additional benefit of chloramination is the reduction of the chlorine smell and taste of your tap water.

Required Consumer Confidence Report (CCR) statement addressing Lead in Drinking Water

“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. MAWC 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.”
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<tr>
<th>CONTAMINANT</th>
<th>UNIT</th>
<th>MECL</th>
<th>MCLG</th>
<th>Tested</th>
<th>Date Detected</th>
<th>Detected Level</th>
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<td>2014</td>
<td>0.7</td>
<td>7.5%-33.2%</td>
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**WATER-QUALITY TABLE FOOTNOTES**

(a) Only one sample was required per monitoring period. (b) No samples were detected above action level. (c) 100% of samples in compliance. (d) Samples met 90th percentile compliance. (e) MCL for <40 samples = >1 pos. ND = None Detected A = Bacteria absence. NO = Not Required. UCMR3 = Unregulated Contaminants Monitoring Regulations pt.3. MRDL = Maximum Residual Disinfectant Level. NE = No MCL or MCLG established. pg/L = picograms per liter, ug/L = micrograms per liter, ppm = parts per million, ppb = parts per billion, MFL = microfibers per liter, NTU = Nephelometric Turbidity Units, E.P. = Entry Point, Max D = Maximum Distribution, RAA = Running Annual Average, MinRDL = Minimum Residual Disinfectant Level.
The Municipal Authority of Westmoreland County is proud to report that the drinking water we provide meets or exceeds established government standards.

The Municipal Authority of Westmoreland County (MAWC) is committed to providing our consumers with a reliable and affordable supply of high-quality drinking water. We test our water using sophisticated equipment and advanced analytical procedures. MAWC water meets or exceeds state and federal standards for both appearance and safety. This annual “Consumer Confidence Report,” required by the Safe Drinking Water Act, tells you where your water comes from, what our tests show about it, and other things you should know about drinking water.

An Explanation of the Water-Quality Data Table

The table presented herein shows the results of our water-quality analyses. Every regulated contaminant that we detected in the water, even in the most minute traces, is listed here. The table contains the name of each substance, the highest level allowed by regulation (MCL), the ideal goals for public health, the amount detected, the major sources of the contaminants, footnotes explaining the words and abbreviations used in the table. Many tests were conducted for other parameters including trace metals, pesticides, herbicides, and numerous organic chemicals such as industrial wastes and solvents. MAWC does not fluoridate any of the water supplied from our treatment facilities. The water supplied to the Ligonier service area that is supplied from the Greater Johnstown Water Authority is fluoridated.

Important Definitions

- **Maximum Contaminant Level (MCL):** The highest level of a contaminant that is allowed in drinking water. MCLs are set as close to 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 there is no known or expected risk to health. MRDLGs do not reflect the benefits of the use of disinfectant to control microbial contamination. **Action Level (AL):** The concentration of a contaminant which, if exceeded, may trigger additional treatment or other requirements which a water system must follow. **Treatment Technique (TT):** A water Treatment Process that is established by the EPA in lieu of an MCL if the EPA finds that it is not "economically technically feasible" to determine the level of the contamination. **UDCM** - Unregulated Contaminants, such as NDMA, are those that don’t have a drinking water standard set by USEPA. The purpose of monitoring for these contaminants is to help EPA decide whether the contaminants should have a standard.

Health Information

Drinking water, including bottled water, may reasonably be expected to contain 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.

The purpose of monitoring for these contaminants is to help EPA decide whether the contaminants should have a standard.

PUBLIC PARTICIPATION

If you have questions or comments concerning the information presented in this report or other aspects of the MAWC’s operations, please contact John Ashton at 724-755-5920. Likewise, you may visit our web site at www.mawc.org. Furthermore, the MAWC Board of Directors meets at noon on the second Wednesday of each month at the New Stanton Office located at 124 Pool & Park Road New Stanton, PA 15672 unless otherwise publicized in the Pittsburgh / Greensburg Tribune-Review. MAWC Board meetings are open to the public.

Source Water Information

**George R. Sweeney Water Treatment Plant**

- **Water Source:** Beaver Run Reservoir
- **Reservoir Capacity:** 11 Billion Gallons
- **Treatment Plant Capacity:** 24 Million Gallons per Day
- **2014 Average Production:** 18.3 Million Gallons per Day

**McKeesport Water Treatment Plant**

- **Water Sources:** Youghiogheny River
- **Intake Location:** McKeesport, PA
- **Treatment Plant Capacity:** 10 Million Gallons per Day
- **2014 Average Production:** 6.9 Million Gallons per Day

**Indian Creek Water Treatment Plant**

- **Water Source:** Youghiogheny River
- **Intake Location:** Dunbar Township, Fayette County
- **Treatment Plant Capacity:** 40 Million Gallons per Day
- **2014 Average Production:** 28 Million Gallons per Day

**Ligonier Distribution System**

- **Water Source:** Greater Johnstown Water Authority
- **Intake Location:** Ligonier Twp.
- **Capacity:** 3,000,000 Gallons per Day
- **2014 Average Production:** 0.39 Million Gallons per Day

Source Water Assessments

Source Water Assessments were conducted for MAWC’s water intakes on the Youghiogheny River and Beaver Run Reservoir. The MAWC’s Indian Creek and McKeesport Filtration Plants draw water from the Youghiogheny River and the George R. Sweeney Filtration Plant draws from the Beaver Run Reservoir. The assessments were completed by the Pennsylvania Department of Environmental Protection (PADEP) during calendar year 2002. The assessments found that the aforementioned water sources are potentially most susceptible to accidental spills along major transportation corridors, releases of raw and/or under treated sewage, and stormwater runoff from developed and/or agricultural areas. Also, Beaver Run is potentially susceptible to the cumulative release of petroleum products from nearby tank farms. To review complete copies of the reports, please contact the PADEP Pittsburgh Regional Office, Records Management Unit at (412) 442-4000 or the MAWC at (724) 834-6500.
The MAWC is required to implement and enforce a cross connection/backflow prevention program in accordance with the Pennsylvania’s Safe Drinking Water Act. Specifically, 25 PA Code Chapter 109 mandates that:

PA Title 25 Section 109.709
a) No person may introduce contaminants into a public water supply through a service connection of a public water system.
   (1) It shall be the responsibility of the customer to eliminate cross-connection or provide backflow devices to prevent contamination of the distribution system from both backsiphonage and backpressure. Individual backflow preventers shall be acceptable to the public water supplier.
   (2) If the customer fails to comply with paragraph (1) within a reasonable period of time, the water supplier shall discontinue service after reasonable notice has been made to the customer.

RESIDENTIAL CUSTOMERS:
Installation of a dual check valve for backflow prevention is required by the Safe Drinking Water Act. This will create a closed system within your home and may require the installation of an overflow tank on your hot water tank, or the installation of a thermal expansion relief valve. Please consider this when you are preparing your plumbing for municipal water.

ALL ASSEMBLIES AND/OR DEVICES INSTALLED MUST BE ASSURED APPROVED:
1013: Reduced Pressure Backflow Assembly (RPBA)
1015: Double Check Valve Assembly (DCVA)
1024: Dual Check Backflow Preventer
1047: Reduced Pressure Detector Backflow Assembly RPDA)
1048: Double Check Valve Detector Assembly (DCDA)

INSTALLATIONS- All assemblies and/or devices should be horizontal. Other positions as approved by the Water Authority. Follow Authority guidelines for location of backflow preventer and any valving required.

Dual Check Valves -Residential
· Residential only, inside building or underground meter pit
Except for residential properties that have irrigation systems, swimming pools, operating a home business, or any fire prevention system. These four exceptions need to contact the authority to determine the needed backflow device.

FOR COMMERCIAL AND INDUSTRIAL APPLICATIONS, ALL INSTALLATION AND/OR MAINTENANCE WORK MUST BE DONE BY A CERTIFIED BACKFLOW CONTRACTOR OR SPECIALIST.

Reduced Pressure Assemblies (RPBA) –Commercial and Industrial
· Above ground heated enclosures preferred
· Underground vault not permitted
· Inside heated building
· Accessible for testing and repair
· Not to be installed in residential unless approved by Authority

Double Check Valve Assembly (DCVA)-Commercial and Industrial
· Underground vault permitted
· Above ground heated enclosures permitted
· Inside heated building
· Residential use permitted
TESTING

Methods:
New England Waterworks Association
American Society of Sanitary Engineering
Others as approved by Authority

Frequency:

Industrial - RPBA, once each year. Test due date based on installation date.

Commercial - DCVA or RPBA, once each year. Test due date based on installation date.

Residential - Dual Check and/or DCVA, visual check and/or test to coincide with meter maintenance. Change-out subject to manufacturer’s recommendation.

The Authority must assign a “Degree of Hazard” to all accounts. This “Degree of Hazard” will determine the type of backflow protection needed. The following steps will assure that there will be no interruption of service to any of our customers and water quality will not be compromised.

1. **High Hazard** – Will be determined by the Authority and will need to install Reduced Pressure Backflow Assembly(RPBA)
2. **Low Hazard** – Will be determined by the Authority and will need to install Double Check Valve Assembly(DCVA)
3. To avoid service interruptions, a parallel set, or twin set, of backflow devices should be used. These will consist of two (2) Pressure Reducing Valves(PRVs), two (2) Meters and two (2) Backflow Assemblies.
4. If the customer chooses to use only one (1) set of backflow devices, both customer and the Authority must sign an agreement as such. If test on this assembly fails, water must remain off until corrected.
5. All backflow assemblies must be approved by the Authority.

Please visit the Municipal Authority of Westmoreland County’s website at www.mawc.org to update the backflow information we have for your account. On the “Backflow Prevention Assembly Test & Maintenance Form” please include the serial number of the water meter that the device protects. You can find the forms on our website along with more information on backflow prevention, diagrams, and excerpts from the Environmental Protection Agency.
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FREQUENTLY ASKED QUESTIONS

Q. Is Fluoride added to MAWC water?
A. MAWC does not add fluoride to the water that is produced at our three (3) water treatment plants. The water that MAWC receives from Greater Johnstown Water Authority to supply the Ligonier service area does contain fluoride.

Q. Why does my drinking water sometimes look cloudy when first taken from a faucet and then clear up?
A. The cloudy water is caused by tiny air bubbles in the water similar to the gas bubbles in carbonated soft drinks. After a while, the bubbles rise to the top and are gone. This type of cloudiness occurs more often in the winter because the colder water holds more dissolved air. Air can be introduced into the water after pipe repairs or other service disruptions. Call customer service for a main line flush if air is excessive after a leak.

Q. There is a “pink slime” in my shower. Is it from the water?
A. No, certain species of airborne bacteria gravitate towards and thrive in a moist environment, such as showers, toilet bowls, sink drains, tiles and dog dishes. These bacteria are naturally occurring and unattractive, but are generally harmless. The best way to avoid this problem is to keep the surfaces free from bacterial film through regular cleaning using Lysol or a chlorine-based product.

Q. Is there anything I can do to eliminate the chlorine taste in my water?
A. Yes, place a pitcher of water in your refrigerator for cool, fresh water anytime. Chlorine will dissipate with time and the water will taste fresh. Reverse Osmosis and activated carbon filters are also effective in removing chlorine from water, but choose a reputable vendor and be sure to follow the manufacturer’s instructions for installation and maintenance.

Q. Why does the water have a “chlorine” smell in the winter time?
A. MAWC adds chlorine to the drinking water to prevent water-borne disease outbreaks such as cholera, typhoid, giardiasis, etc. The chlorine must remain in the water for its entire journey to your spigot. In the summertime MAWC combines ammonia with the chlorine to help carry the chlorine over the entire distribution system and reduce taste and odors caused by the warmer water. In the winter, MAWC eliminates the ammonia and adds only chlorine to the water. This chlorine eliminates any free ammonia in the system which left unchecked can cause bacterial growth. This “free” chlorine residual creates the off odors that you smell.

Q. What are the black spots, rings or lines in toilets and shower stalls?
A. Mold and mildew grows in places that are continually damp and is treated the same as the pink slime.