



A better longitude on life.

**2010 Annual Drinking Water  
Quality Report  
June 15th, 2011  
PWG ID # 0380005**

The City of Meridian is pleased to present to you this year's Annual Water Quality report. This report is designed to inform you about the quality of the water we produce and services we deliver to you everyday. 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 treatment process and to protect our water resources. We are committed to insuring the quality of your drinking water.

**Our water source consists of eight wells pumping from the LOWER WILCOX AQUIFER. The depth of these wells range from 747' to 948'. A source water assessment has been completed by the Mississippi State Department of Health and can be reviewed in the utility billing office at 311 27th Ave.**

**THE CITY IS PLEASED TO REPORT THAT OUR DRINKING WATER MEETS OR EXCEEDS ALL FEDERAL AND STATE REQUIREMENTS.**

If you have any questions about this report or concerning your water utility, please contact Asst. Public Works Director of Utilities, Hugh Smith, at 4609 48th Place or call 601-484-6836. We want our valued customers to be informed about their water utility. If you want to learn more please attend our scheduled meeting on Tuesday, June 21, 2011 at 4:00 PM, in the City of Meridian Police Court Room at 2415 6th Street.

**The City of Meridian** routinely monitors for 154 constituents or potential contaminants in your drinking water according to Federal and State Laws. Of these 154 constituents, we only had **5 detects in 2010**. The table on the back shows the results of our monitoring for the period of **January 1st to December 31st, 2010**.

Mailing Address Line 1  
Mailing Address Line 2  
Mailing Address Line 3  
Mailing Address Line 4  
Mailing Address Line 5

As water travels over the land or underground, it can pick up substances or contaminants such as microbes, inorganic and organic chemicals, and radioactive substances. All drinking water, including bottled drinking water, may be reasonably expected to contain at least small amounts of some contaminants. It's important to remember that the presence of these contaminants does not necessarily pose a health risk.

**QUESTIONS:**

Please call our office if you have questions: **601- 484 -6836**.

We at the City of Meridian 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.

Sincerely,

Monty Jackson, Public Works Director

**MORE INFORMATION:**

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 tap water, you may wish to have your water tested. You may also want to flush your tap for at least 30 seconds before consumption. Additional information is available from the Safe Drinking Water Hotline ( **1-800-426-4791**).

**VIOLATIONS: Important Information Regarding Your Drinking Water**

**Monitoring Requirement Not Met for City of Meridian:**

As you can see by the table, our system had **One Violation**. Our water system violated a drinking water standard. Although this is not an emergency, as our customers, you have a right to know what happened and what we are doing to correct this situation. We are required to monitor your drinking water for specific contaminants on a regular basis. Results of regular monitoring are an indicator of whether or not our drinking water meets health standards.

**What should You do?** There is nothing you need to do at this time.

**What Happened?**

We are required to take **30 samples** for the Contaminant Pb/Cu (Lead/Copper) on a **Triennial frequency**. During the sampling period ending 9/30/2010, we **only submitted 20 samples of the 30 required samples**. Therefore we cannot be sure of the quality of our drinking water during that time.

**What is being done about this violation?** We plan to take the **required samples** on **6/1/2011**.

**For more information**, please contact Assistant Public Works Director—Utilities, Hugh Smith, at 601 484 6836.

Otherwise, we're proud that **your drinking water meets or exceeds all Federal and State requirements**. All sources of drinking water are subject to potential contamination by substances that are naturally occurring or manmade. These substances can be microbes, inorganic or organic chemicals and radioactive substances. All 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 at **1-800-426-4791**.

**VULNERABILITY:**

Some people may be more vulnerable to contaminants in drinking water than the general population. Immune-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 ( **1-800-426-4791**).

**MORE INFORMATION:**

(17) **Lead**. 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.

**WATER QUALITY TEST RESULTS**

<u>Contaminant</u>	<u>Violation Y/N</u>	<u>Date Collected</u>	<u>Level Detected</u>	<u>Range of Detects Or #of Samples Exceeding MCL/ACL</u>	<u>Unit Measurement</u>	<u>MCLG</u>	<u>MCL</u>	<u>Likely Source of Contamination</u>
<b>Microbiological Contaminants</b>								
Total Coliform	N	2008*	0	NA	NA	0	Presence of 5% of monthly samples	Naturally present in the environment
<b>Inorganic Contaminants:</b>								
10. Barium	N	2009	.029458	2	Ppm	2	2	Discharge of drilling wastes; discharge from metal refineries; erosion of natural deposits.
13. Chromium	N	2009	.000753	2	Ppm	.1	.1	Discharge from steel and pulp mills; erosion of natural deposits.
14. Copper	Y	2005-2007	.000	30	Ppm	1.3	AL 1.3	Corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives. <b>Standards Violation—correct number of samples not submitted 9/30/2010. See other side for explanation under VIOLATIONS.</b>
16. Fluoride**	N	2009	1.11	2	Ppm	4	4	Erosion of natural deposits; water additive which promotes strong teeth; discharge from fertilizer and aluminum factories
17. Lead	Y	2005 –2007	.002	30	Ppm	0	AL15	Corrosion of household plumbing systems, erosion of natural deposits. <b>Standards Violation—correct number of samples not submitted 9/30/2010. See other side for explanation under VIOLATIONS.</b>
19. Nitrate (as Nitrogen)	N	August	< 0.2	2	Ppm	10	10	By product of drinking water chlorination.
20. Nitrite (as Nitrogen)	N	August	< 0.05	2	Ppm	1	1	By product of drinking water chlorination.
Nitrate + Nitrite (as Nitrogen)	N	August	<0.25	2	Ppm	10	10	By product of drinking water chlorination.
<b>Volatile Organic Contaminants:</b>								
73. TTHM [Total trihalomethanes]	N	August	15.88	1	Ppb	NA	80	By-product of drinking water chlorination.
HAA5 Haloacetic Acids	N	August	0.0	1	Ppb	NA	60	By product of drinking water chlorination
Chlorine (as Cl2) (ppm)	N	Jan.—Dec. 2010	Low - High 2.02 - 2.58	40	Ppm	4	4	Water additive used to control microbes
<b>Radionuclides</b>								
Alpha particles	N	2008	2.755	2	Ug/l	0	15	Erosion of natural deposits of certain minerals that are radioactive and may emit a form of radiation known as alpha radiation
Radium 226 & Radium 228 (combined)	N	2008	.2523	2	Pci/l	0	5	Erosion of natural deposits
Uranium	N	2008	.0585	2	Pci/l	0	30	Erosion of natural deposits

\* No Samples required in 2010. - \*\* We boost the fluoride levels for dental hygiene. - \*\*\* Non-regulated contaminants which EPA requires monitoring.

**TERMINOLOGY:**

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:

**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.

**Picocuries per liter (pCi/L)** - is a measure of the radioactivity in water.

**Millirems per year (mrem/yr)** - measure of radiation absorbed by the body.

**Action Level** - 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 Contaminant Level (MCL)** - The "Maximum Allowed" - is 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 "Goal" - is the level of a contaminant in drinking water below, which there is no known or expected risk of health. MCLGs allow for a margin of safety.

**DID YOU KNOW?** The City of Meridian:

Was incorporated on February 10, 1860.

Has a population of 41,148.

Has approximately 17,579 water services in place with an average of 14,300 active accounts.

Maintains approximately 425 miles of water lines and 425 miles of sewer lines.

Has two freshwater treatment plants that produced 2,070,363,000 gallons of water in 2010.

Has two wastewater treatment plants that treated approximately 3.83 billion gallons of raw sewage last year

Maintains approximately 60 lift stations.

Covers 54.3 square miles.

Has 438 miles of paved streets.

Has 6,573 street lights

Employs 510 full time workers and approximately 30—80 part time workers during the summer

Bad Debt was less than .0049 of 1% of total services billed. For every \$100 billed all but \$ .49 cents was collected.

Has 5 above ground storage tanks that have the total capacity of storing 12 million gallons of water.

**City of Meridian - Public Works  
Freshwater Treatment Plant  
4609 48th Place  
Meridian, MS 39305**

**Phone: 601 - 484-6836  
Contact: Hugh Smith - Asst. PW Director - Utilities**