



MISSISSIPPI STATE DEPARTMENT OF HEALTH
DIVISION OF WATER SUPPLY

2011 JUN 13 AM 9:41

CALENDAR YEAR 2010 CONSUMER CONFIDENCE REPORT
CERTIFICATION FORM

City of Pascagoula
Public Water Supply Name

300006

PWS ID#(s)(List ID #s for all Water Systems Covered by This CCR)

The Federal Safe Drinking Water Act requires each community public water system to develop and distribute a consumer confidence report (CCR) to its customers each year. Depending on the population served by the public water system, this CCR must be mailed to the customers, published in a newspaper of local circulation, or provided to the customers upon request.

Please Answer the Following Questions Regarding the Consumer Confidence Report

Customers were informed of availability of CCR by:

- Advertisement in local paper
- On water bills
- Other _____

Date Customers were Informed: ___ / ___ / ___

CCR was distributed by mail or other direct delivery. Specify other direct delivery methods: _____

Date Mailed/Distributed: 06 / 10 / 11

CCR was published in local newspaper. (*Attach copy of published CCR & proof of publication*)

Name of Newspaper: _____

Date Published: ___ / ___ / ___

CCR was posted in public places. (*Attach list of locations*)

Date Posted: 06 / 10 / 11

CCR was posted on a publicly accessible internet site at the address:

www.cityofpascagoula.com

CERTIFICATION

I hereby certify that a consumer confidence report (CCR) has been distributed to the customers of this public water system in the form and manner identified above. I further certify that the information included in this CCR is true and correct and is consistent with the water quality monitoring data provided to the public water system officials by the Mississippi State Department of Health, Division of Water Supply.

Steve Mitchell Operations Manager

Name/Title (President, Mayor, Owner, etc.) (Please type/print)

Signature

06 / 10 / 11

Date

Mail Completed Form to: Division of Water Supply/P.O. Box 1700/Jackson, MS 39215

Water Quality Report
For
The City of Pascagoula
ID # 300006

We are pleased to present to you our Annual Water Quality Report for the year 2010. This report is designed to inform you about the quality of 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. In view of this goal, we are pleased to report that our drinking water meets all federal and state requirements.

Our water comes from wells drilled deep into aquifers 300 to 800 feet below the surface. These aquifers are the Pascagoula and the Graham's Ferry formations. Each well is evaluated on an annual basis for purity and content. If you want to learn more about your water and how the City of Pascagoula works to keep your water safe, contact Jeff Hutchison, Water Superintendent, at our 14th St. offices between 7:00 a.m. and 3:30 p.m. Or you may meet with us at our Criswell Water Treatment Plant on Thursday, July 7, 2011, at 1:30 p.m. at our annual open house to discuss any water issues. You may call us at (228) 938-6623 or write to us at P.O. Drawer 908, Pascagoula, MS 39568-0908. Our City Council meets on the first and third Tuesday of each month at 6:00 p.m. at City Hall. Information is also available on our website www.cityofpascagoula.com

The source water assessment has also been completed for our public water system to determine the overall susceptibility of its drinking water to identify potential sources of contamination. A report containing detailed information on how the susceptibility determinations were made has been furnished to our Public Works Department and is available for viewing at our office upon request.

The City of Pascagoula routinely monitors for substances and contaminants 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, 2010. As water travels over the land or underground, it may pick up substances or contaminants such as microbes, inorganic and organic chemicals, and radioactive substances. All drinking water, including bottled drinking water, is suspected to contain small amounts of some substances or contaminants. It is important to remember that the presence of these substances or contaminants does not necessarily pose a health risk.

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

Running Annual Average (RAA)

Maximum Residual Disinfectant Levels (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.

Non-Detects (ND) - laboratory analysis indicates that substances or contaminants are not present.
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 - 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.

Parts per quadrillion (ppq) or Picograms per liter (picograms/l) - one part per quadrillion corresponds to one minute in 2,000,000,000 years or one penny in \$10,000,000,000,000.

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

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

Million Fibers per Liter (MFL) - million fibers per liter is a measure of the presence of asbestos fibers that are longer than 10 micrometers.

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 - 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 - The "Maximum Allowed" (MCL) 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 - The "Goal"(MCLG) is 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.

TEST RESULTS

| Contaminant | Violation Y/N | Date Collected | Level Detected | Range of Detects or # of Samples Exceeding MCL/ACL | Unit Measurement | MCLG | MCL | Likely Source of Contamination |
|----------------------------------|---------------|----------------------------------|-------------------------|--|------------------|------|-------|---|
| Radionuclide Contaminants | | | | | | | | |
| Uranium | N | 12/19/08 | 0.044 | | Ug/l | 0 | 30 | Erosion of natural deposits |
| Alpha Emitters | N | 12/19/08 | 1.772 | | PCi/l | 0 | 15 | Erosion of natural deposits |
| Combined Radium 226-228 | N | 12/19/08 | 2.0488 | | PCi/l | 0 | 5 | Erosion of natural deposits |
| Inorganic Contaminants | | | | | | | | |
| Arsenic | N | 12/01/09 | <0.0005 | | Mg/l | n/a | 0.05 | Erosion of natural deposits; runoff from orchards; runoff from glass and electronics production wastes |
| Cadmium | N | 12/01/09 | <0.0001 | 0.1-0.8 | Mg/l | 5 | 0.005 | Corrosion of galvanized pipes; erosion of natural deposits; discharge from metal refineries; runoff from waste batteries and paints |
| Chromium | N | 12/01/09 | 0.0005 | | Mg/l | 100 | 0.1 | Discharge from steel and pulp mills; erosion of natural deposits |
| Fluoride | N | 12/01/09 | 0.2 | | Mg/l | 4 | 4 | Erosion of natural deposits; water additive which promotes strong teeth; discharge from fertilizer and aluminum factories |
| Nitrate (as Nitrogen) | N | 06/07/10 06/07/10 06/07/10 | < 0.2 < 0.2 < 0.2 | | Mg/l | 10 | 10 | Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits |

| | | | | | | | | |
|----------------------------------|---|----------------------------------|----------------------------|--|------|----|--------|--|
| Nitrate-Nitrite (as Nitrogen) | N | 06/07/10 06/07/10 06/07/10 | <0.25 <0.25 <0.25 | | Mg/l | 10 | 10 | Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits |
| Nitrite (as Nitrogen) | N | 06/07/10 06/07/10 06/07/10 | <0.05 <0.05 <0.05 | | Mg/l | 1 | 1 | Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits |
| Mercury | N | 12/01/09 | <0.0002 | | Mg/l | | 0.002 | Erosion of natural deposits; discharge from refineries and factories; runoff from landfills and croplands |
| Cyanide | N | 12/02/09 | <0.015 <0.015 <0.015 | | Mg/l | | 0.2 | Discharge from steel/metal factories; discharge from plastic and fertilizer factories |
| Antimony | N | 12/01/09 | <0.0005 | | Mg/l | | 0.0006 | Discharge from petroleum refineries; fire retardants; ceramics; electronics; solder |
| Barium | N | 12/01/09 | 0.0005 | | Mg/l | | .010 | Discharge of drilling wastes; discharge from metal refineries; erosion of natural deposits |
| Beryllium | N | 12/01/09 | <0.0001 | | Mg/l | | 0.004 | Discharge from metal refineries and coal-burning factories; discharge from electrical, aerospace, and defense industries |
| Selenium | N | 12/01/09 | <0.0005 | | Mg/l | | 0.05 | Discharge from petroleum refineries; erosion of natural deposits; discharge from mines |
| Thallium | N | 12/01/09 | <0.0005 | | Mg/l | | 0.002 | Leaching from ore- processing sites; discharge from electronics, glass, and drug factories |

Disinfection By-Products

| | | | | | | | | |
|----------|---|----------------------|--------------------|--|------|---|----|--|
| Chlorine | N | 01/10 12/10 | 0.96 (RAA) | | Mg/l | | 4 | Water Additive used to control microbes. |
| THM | N | 08/17/10 | 4.63 | | Ppb | 0 | 80 | By-product of drinking water chlorination |
| HAA5 | N | 08/17/10 | 0.00 | | Ppb | | 60 | Byproduct of drinking water disinfection |
| Bromate | N | 01/01/10 12/06/10 | <0.0005 <0.0025 | | Ppb | | 10 | Byproduct of drinking water disinfection |

Lead & Copper

| | | | | | | | | |
|--------|---|----------|----------------|--|------|-----|--------|---|
| Lead | N | 09/13/10 | 0.002 (RAA) | | Mg/l | 0 | AL=15 | Corrosion of household plumbing systems, erosion of natural deposits |
| Copper | N | 09/13/10 | 0.4 (RAA) | | Mg/l | 1.3 | AL=1.3 | Corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives |

EPA is reviewing the drinking water standard for arsenic because of special concerns that it may not be stringent enough. Arsenic is a naturally occurring mineral known to cause cancer in humans at high concentrations.

Nitrate in drinking water at levels above 10 ppm is a health risk for infants of less than six months of age. High nitrate levels in drinking water can cause blue baby syndrome. Nitrate levels may

rise quickly for short periods of time because of rainfall or agricultural activity. If you are caring for an infant you should ask advice from your health care provider.

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 by a private laboratory. Letting the water run for 30 seconds to 2 minutes before using tap water may reduce your exposure to lead. Additional information is available from the Safe Drinking Water Hotline (1-800-426-4791).

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

All sources of drinking water are subject to potential contamination by substances that are naturally occurring or man made. 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 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.

Some people may be more vulnerable to contaminants in drinking water than the general population. People whose immune system is compromised 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 diseases. 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 (a bacteria more commonly found in surface water) and other microbiological contaminants are available from the Safe Drinking Water Hotline (1-800-426-4791).

If you want additional information about your drinking water, you may contact our certified waterworks operator or you may prefer to log on to the Mississippi Department of Health website and obtain specific information about your system and its compliance history at the following address: <http://www.msdh.state.ms.us/msdhsite/index.cfm/11.0.76.html>. From there just follow the "Water Supply" link on the left. Information including current and past boil water notices, compliance and reporting violations, and other information pertaining to your water supply including "Why, When, and How to Boil Your Drinking Water" and "Flooding and Safe Drinking Water" may be obtained.

Our water resources are the heart of our community, our way of life and our children's future. You can help us in our efforts to provide you with quality water and services by keeping alleys clear of debris, fences, and other obstructions, by protecting your water meter so that it may be read accurately, by preventing backflows and back siphons, by using pesticides wisely, and by not wasting this precious natural resource.

CONSUMER CONFIDENCE REPORT LOCATIONS

- 1. Pascagoula City Hall**
- 2. Pascagoula Utilities**
- 3. Public Works**
- 4. Code Enforcement**
- 5. Criswell Water Plant**
- 6. Communy Water Plant**
- 7. B-C Water Plant**