

City of Pass Christian 2014 Drinking Water Report

Is my water safe?

Last year, as in years past, your tap water met all U.S. Environmental Protection Agency (EPA) and state drinking water health standards. Local Water vigilantly safeguards its water supplies and meet again we are proud to report that our system has not violated a maximum contaminant level or any other water quality standard.

Do I need to take special precautions?

Some people may be more vulnerable to contaminants in drinking water than the general population. Immunocompromised 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/Centers for Disease Control (CDC) guidelines on appropriate means to lessen the risk of infection by Cryptosporidium and other microbial contaminants are available from the Safe Water Drinking Hotline (800-426-4791).

Where does my water come from?

Our water sources from five deep water wells that draw water from the Pleistocene Formation, approximately 900 feet below the ground surface.

Source water assessment and its availability.

A Source Water Assessment has been completed by the Mississippi Department of Environmental Quality. It indicates that all four of our wells are rated as a "MODERATE" risk for future contamination by groundwater. The complete report is available for review at the Water Department Billing Office.

Why are there contaminants in my drinking water?

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 (EPA) 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: microbial contaminants, such as viruses and bacteria, that 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 that limit the amount of certain contaminants in water provided by public water systems. Food and Drug Administration (FDA) regulations establish limits for contaminants in bottled water which must provide the same protection for public health.

How can I get involved?

The Pass Christian Board of Aldermen has a regularly scheduled meeting on the first and third Tuesday of each month, beginning at 6:00 PM. All customers of the Pass Christian Water System are invited to attend. This consumer education report will be mailed to the customers of the water system. In accordance with MSDH regulations, customer notification of these results will be accomplished by this publication.

Additional information for lead

If present, elevated levels of lead can cause various 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. Pass Christian 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/lead/>. The Mississippi State Department of Health Public Health Laboratory offers lead testing for \$10 per sample. Please contact 601.576.7582 if you wish to have your water tested.

Monitoring and reporting of compliance data violations

***** April 1, 2013 MESSAGE FROM MSDH CONCERNING RADIOLOGICAL SAMPLING *****

In accordance with the Radionuclides Rule, all community public water supplies were required to sample quarterly for radionuclides beginning January 2007 - December 2007. Your public water supply completed the sampling by the scheduled deadline, however, during an audit of the Mississippi State Department of Health Radiological Laboratory, the Environmental Protection Agency (EPA) suspended analysis and reporting of radiological compliance samples and results until further notice. Although this was not the result of a violation by the public water supply, MSDH was required to issue a violation. This is to notify you that as of this date, your water system has completed the monitoring requirements and is now in compliance with the Radionuclides Rule. If you have any questions, please contact Karen Walkers, Director of Compliance and Enforcement, Bureau of Public Water Supply, at (601)576.7518.

In accordance with MSDH regulations, customer notification of these results will be accomplished by this publication. A copy of the CCR will be mailed to our customers, but is available for review at the office of the Water and Sewer Operator or City Hall.

For more information please contact:

WPSCO - Bruce Anthony Address: 397 Clark Avenue
228-452-2031 Pass Christian, MS 39571

Water Quality Data Table

The table below lists all of the drinking water contaminants that we detected during the calendar year of this report. The presence of contaminants in the water does not necessarily indicate that the water poses a health risk. Unless otherwise noted, the data presented in this table is from testing done in the calendar year of the report. The EPA or the State requires us to monitor for certain contaminants less than once per year because the concentrations of these contaminants do not change frequently.

Contaminant	MCLG or MCL	Year	Sample Date	Result	Range	Sample Date	Violation	Typical Source
Disinfectants & Disinfection By-Products								
<i>(There is convincing evidence that addition of a disinfectant is necessary for control of microbial contaminants.)</i>								
Halocetic Acids (HAA5) (ppb)	NA	60	13.0	NA	2014	No	By-product of drinking water disinfection	
Chlorine (as Cl ₂) (ppm)	4	4	1.6	0.80	1.00	2014	No	Water additive used to control microbes
THM45 (Total Trihalomethanes) (ppb)	NA	80	1.29	NA	2014	No	By-product of drinking water disinfection	
Emerging Contaminants								
Anticoumatin (ppm)	NA	0.006	<0.0003	NA	2014	No	Discharge from petroleum refineries, for nonhalohal, granular, methacrylates, acetylene, rest addition.	
Arsenic (ppm)	NA	0.010	<0.0003	NA	2014	No	Runoff from various deposits, leachate from electronics, runoff from glass and electronics production waste.	
Bisphenol (ppm)	NA	2	0.0113	0.0074	0.0133	2014	No	Discharge of drilling water; Discharge from metal refineries; Emission of various deposits.
Beryllium (ppm)	NA	0.004	<0.0001	NA	2014	No	Discharge from metal refineries and other facilities; Discharge from electrical, aerospace, and defense industries.	
Cadmium (ppm)	NA	0.005	<0.0003	NA	2014	No	Corrosion of galvanized pipes; Emission of various deposits; Discharge from metal refineries; Discharge from waste batteries and paint.	
Chromium (ppm)	NA	0.1	0.0032	0.001	0.002	2014	No	Discharge from steel and pulp mills; Emission of natural deposits.
Cyfluthrin (as Fipronil) (ppm)	NA	0.1	<0.015	NA	2014	No	Discharge from plastic and fertilizer factories; Discharge from steel/metal facilities.	
Fluoride (ppm)	NA	4	0.382	0.187	0.532	2014	No	Emission of natural deposits; Discharge from metal refineries; Discharge from fertilizer and pesticide production.
Mercury (inorganic) (ppm)	NA	0.002	<0.0005	NA	2014	No	Emission of various deposits; Discharge from refineries and fertilizer; Runoff from landfills.	
Nitrate (measured as Nitrogen) (ppm)	10	10	0.03	NA	2014	No	Runoff from fertilizer use; Leaching from septic tanks, manure; Emission of natural deposits.	
Nitrite (measured as Nitrogen) (ppm)	10	10	0.1	NA	2014	No	Runoff from fertilizer use; Leaching from septic tanks, manure; Emission of natural deposits.	
Nitric (measured as Nitrogen) (ppm)	1	1	0.02	NA	0.05	2014	No	Runoff from fertilizer use; Leaching from septic tanks, manure; Emission of natural deposits.
Selenium (ppm)	NA	0.05	<0.0025	NA	2014	No	Discharge from petroleum and metal refineries; Emission of natural deposits; Discharge from various sources.	
Thallium (ppm)	NA	0.002	<0.0003	NA	2014	No	Discharge from electronics, glass and leaching from ore processing using strong fluorides.	

Contaminant	MCLG or MCL	Year	Sample Date	Result	Range	Sample Date	Violation	Typical Source
Volatile Organic Compounds								
<i>(1,1,1-Trichloroethane)</i>								
1,1,1-Trichloroethane (ppb)	5	5	<0.5	NA	2014	No	Discharge from metal degreasing sites and other facilities.	
1,1-Dichloroethene (ppb)	5	5	<0.5	NA	2014	No	Discharge from industrial chemical facilities.	
1,2-Dichloroethane (ppb)	70	70	<0.5	NA	2014	No	Discharge from metal-finishing facilities.	
1,3-Dichloroethene (ppb)	0	5	<0.1	NA	2014	No	Discharge from industrial chemical facilities.	
1,2-Dichloropropane (ppb)	0	5	<0.1	NA	2014	No	Discharge from industrial chemical facilities.	
Benzene (ppb)	0	5	<0.5	NA	2014	No	Discharge from facilities; Leaching from gas storage tanks and landfills.	
Carbon Tetrachloride (ppb)	0	5	<0.5	NA	2014	No	Discharge from chemical plants and other industrial activities.	
cis-1,2-Dichloroethylene (ppb)	70	70	<0.5	NA	2014	No	Discharge from industrial chemical facilities.	
Dibromochloromethane (ppb)	0	5	<0.5	NA	2014	No	Discharge from petroleum refineries.	
Dibromodichloromethane (ppb)	0	60	<0.5	NA	2014	No	Discharge from industrial chemical facilities.	
Dibromodifluoromethane (ppb)	75	75	<0.5	NA	2014	No	Discharge from industrial chemical facilities.	
Dichloroacetylene (ppb)	100	100	<0.5	NA	2014	No	Discharge from industrial chemical facilities.	
Styrene (ppb)	100	100	<0.5	NA	2014	No	Discharge from rubber and plastic factories; Leaching from landfills.	
Tetrachloroethylene (ppb)	0	5	<0.5	NA	2014	No	Discharge from facilities and dry cleaners.	
Trichloroethylene (ppb)	100	100	<0.5	NA	2014	No	Discharge from petroleum refineries.	
trans-1,2-Dichloroethylene (ppb)	100	100	<0.5	NA	2014	No	Discharge from industrial chemical facilities.	
Trichlorofluoromethane (ppb)	0	5	<0.5	NA	2014	No	Discharge from metal degreasing sites and other facilities.	
Vinyl Chloride (ppb)	0	2	<0.5	NA	2014	No	Leaching from PVC piping; Discharge from plastic factories.	
Xylenes (ppm)	1000	1000	<0.5	NA	2014	No	Discharge from petroleum refineries; Discharge from chemical facilities.	

Contaminant	MCLG	AL	Year	Sample Date	Result	Sample Date	Violation	Typical Source
Organic Compounds								
Copper - action level at consumer tap (ppm)	1.3	1.3	0.3	2007	0	No	Corrosion of household plumbing systems; Emission of natural deposits.	
Lead - action level at consumer tap (ppb)	0	15	3	2007	0	No	Corrosion of household plumbing systems; Emission of natural deposits.	

Contaminant	MCL	AL	Year	Sample Date	Result	Sample Date	Violation	Typical Source
Radionuclides								
Combed Uranium (ppm)	30	0.3	9/20/13	0	No			
Combed Uranium (ppm)	30	0.3	9/20/13	0	No			
Radium - 226 (pCi/L)	NA	<0.007	9/20/13	0	No			
Radium - 228 (pCi/L)	NA	<0.02	9/20/13	0	No			
Radium - 226 (pCi/L)	NA	<0.58	9/20/13	0	No			
Radium - 228 (pCi/L)	NA	<0.37	9/20/13	0	No			
gross Alpha Particle Activity (pCi/L)	15	6.4	9/20/13	0	No			
gross Alpha Particle Activity (pCi/L)	15	6.4	9/20/13	0	No			

Contaminant	Definition
MCLG	Maximum Contaminant Level Goal: The level of a contaminant in drinking water below which there is no known or expected risk to health. MCLG is set for a margin of safety.
MCL	Maximum Contaminant Level: 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.
PT	Public Treatment Technique: A required process intended to reduce the level of a contaminant in drinking water.
AL	Action Level: The concentration of a contaminant which, if exceeded, triggers treatment or other requirements which a water system must follow.
Maximums and Exemptions	Maximums and Exemptions: State or EPA permission not to meet an MCL or a certain technique and/or certain conditions.
MDELO	Maximum Residual Disinfection Level Goal: The level of a drinking water disinfectant below which there is no known or expected risk to health. MDELOs do not reflect the benefits of use of disinfectants to control microbial contaminants.
MDELL	Maximum Residual Disinfection Level: 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.
MNR	Maximum Nitrate Limit
MFL	MCLG State-Designated Maximum Feasible Level

WATER SUPPLY
JUL -6 AM 8:23

2015 JUL -6 AM 8: 23

ATTACHMENT

The City of Pass Christian delivered the CCR Report to its customers by advertising same in the City's local newspaper, Gazebo Gazette, on May 8, 2015. (See Proof of Publication attached.) The City also posted a notice of availability of the CCR Report on the City's website on its June, 2015, water bill. The CCR Report remains posted on the City's website. Additionally, the City took additional efforts to advise its customers of the availability of the CCR Report by posting same on the City's public bulletin boards at City Hall and City Court and placed a copy of same at the City Library. The City also sent letters to local apartment complex owners advising them to post a notice of the availability of the CCR Report with their tenants.

Proof of Publication

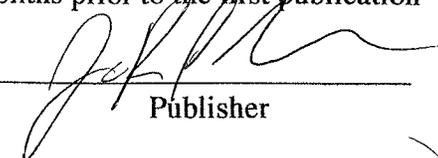
SEE
ATTACHED

STATE OF MISSISSIPPI COUNTY OF HARRISON

PERSONALLY appeared before me the undersigned notary in and for said County and State, JACE R. PONDER, publisher of THE GAZEBO GAZETTE, a newspaper printed and published in the City of PASS CHRISTIAN, Harrison County, who being duly sworn, deposes and says the publication of this notice hereunto attached has been made in the said publication 1 weeks in the following numbers and on the following dates of such paper:

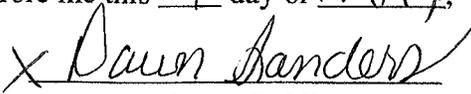
- Vol. X No. 19 dated 6 day of May, 2015
- Vol. _____ No. _____ dated _____ day of _____, 20____
- Vol. _____ No. _____ dated _____ day of _____, 20____
- Vol. _____ No. _____ dated _____ day of _____, 20____
- Vol. _____ No. _____ dated _____ day of _____, 20____
- Vol. _____ No. _____ dated _____ day of _____, 20____
- Vol. _____ No. _____ dated _____ day of _____, 20____
- Vol. _____ No. _____ dated _____ day of _____, 20____

Affiant further states on oath that said newspaper has been established and published continuously in said county for a period of more than twelve months prior to the first publication of said notice.



Publisher

Sworn to and subscribed before me this 9th day of MAY,
A.D. 2015



Notary Public





City of Pass Christian

PO Drawer 368
Pass Christian, MS 39571
Phone (228) 452-3310
Fax (228) 452-5435

Buddy Clarke, Alderman Ward 1
W. Earl Washington, Sr., Alderman Ward 2
Anthony Hall, Alderman Ward 3
Victor Pickich, Alderman Ward 4
Kenny Torgeson, Alderman-at-Large

Leo "Chipper" McDermott, Mayor

June 30, 2015

Mississippi Department of Health
Bureau of Public Water Supply
P.O. Box 1700
Jackson, MS 39315-1700

**RE: City of Pass Christian
Consumer Confidence Report**

To Whom It May Concern:

This is to advise and certify that the enclosed 2014 Drinking Water Quality Report was prepared and distributed to the customers of the Pass Christian Water Supply System (PWS ID MS 0240009) via a paid ad run in the Gazebo Gazette on May 8, 2015. (A copy of published CCR report is enclosed).

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 as described 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.

Sincerely,

Leo "Chipper" McDermott
Mayor

Enclosure

cc: Teryl Anthony

2015 JUL -6 AM 8:22
DIVISION OF WATER SUPPLY