



MISSISSIPPI STATE DEPARTMENT OF HEALTH

BUREAU OF PUBLIC WATER SUPPLY

**CALENDAR YEAR 2010 CONSUMER CONFIDENCE REPORT
CERTIFICATION FORM**

City of Pass Christian
Public Water Supply Name

MS 0240009
List PWS 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: *(Attach copy of publication, water bill or other)*
 - Advertisement in local paper
 - On water bills
 - Other _____

Date customers were informed: 05/11/11

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

Date Mailed/Distributed: / /

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

Name of Newspaper: Sun Herald

Date Published: 05/11/11

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

Date Posted: / /

- CCR was posted on a publicly accessible internet site at the address: www. _____

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, Bureau of Public Water Supply.

[Signature]
Name/Title (President, Mayor, Owner, etc.)

5/17/11
Date

**Mail Completed Form to: Bureau of Public Water Supply/P.O. Box 1700/Jackson, MS 39215
Phone: 601-576-7518**

City of Pass Christian 2010 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 once 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. 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/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 comes from four deep water wells that draw water from the Pascagoula 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 confidence report will not 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 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. 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/safewater/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

During a sanitary survey conducted on 4/23/2010, the Mississippi State Department of Health cited the following significant deficiencies(s):

1. Well in flood zone (100-year)

Corrective actions: The system is currently under a Bilateral Compliance Agreement to complete the flood proofing of the wells located at Market St., Bayview, and Henderson Point. All deficiencies are scheduled to be completed by 9/1/2012.

2. Inadequate internal cleaning/maintenance of storage tanks

Corrective actions: The system is currently under a Bilateral Compliance Agreement with the Mississippi State Department of Health to complete the repair, cleaning, and painting of the tanks. All deficiencies are scheduled to be completed by 9/1/2012.

3. No approved emergency response plan or vulnerability analysis (updated)

Corrective actions: The system has completed an updated Vulnerability Assessment and submitted certification to the Mississippi State Department of Health. All deficiencies are scheduled to be completed by 10/5/2010.

4. Inadequate security measures

Corrective actions: The system is currently under a Bilateral Compliance Agreement with the Mississippi State Department of Health to complete the installation of fencing around the Market St. well. All deficiencies are scheduled to be completed by 9/1/2012.

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.

Contaminants	MCLG or MRDLG	MCL, TT, or MRDL	Your Water	Range Low High	Sample Date	Violation	Typical Source
Disinfectants & Disinfection By-Products							
(There is convincing evidence that addition of a disinfectant is necessary for control of microbial contaminants.)							
Haloacetic Acids (HAA5) (ppb)	NA	60	10.0	NA	2010	No	By-product of drinking water chlorination
Chlorine (as Cl ₂) (ppm)	4	4	1.98	1.38 1.98	2010	No	Water additive used to control microbes
TTHMs [Total Trihalomethanes] (ppb)	NA	80	58.13	NA	2010	No	By-product of drinking water disinfection
Inorganic Contaminants							
Antimony (ppm)	NA	0.006	0.0005	NA	2009	No	Discharge from petroleum refineries; fire retardants; ceramics; electronics; solder; test addition.
Arsenic (ppm)	NA	.010	0.0005	NA	2009	No	Erosion of natural deposits; Runoff from orchards; Runoff from glass and electronics production wastes
Barium (ppm)	NA	2	0.012385	NA	2009	No	Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits
Beryllium (ppm)	NA	0.004	0.0001	NA	2009	No	Discharge from metal refineries and coal-burning factories; Discharge from electrical, aerospace, and defense industries
Cadmium (ppm)	NA	0.005	0.0001	NA	2009	No	Corrosion of galvanized pipes; Erosion of natural deposits; Discharge from metal refineries; runoff from waste batteries and paints
Chromium (ppm)	NA	0.1	0.001097	NA	2009	No	Discharge from steel and pulp mills; Erosion of natural deposits
Cyanide [as Free Cn] (ppm)	NA	0.2	0.015	NA	2009	No	Discharge from plastic and fertilizer factories; Discharge from steel/metal factories
Fluoride (ppm)	NA	4	0.43	NA	2009	No	Erosion of natural deposits; Water additive which promotes strong teeth; Discharge from fertilizer and aluminum factories
Mercury [Inorganic] (ppm)	NA	0.002	0.0002	NA	2009	No	Erosion of natural deposits; Discharge from refineries and factories; Runoff from landfills; Runoff from cropland
Nitrate [measured as Nitrogen] (ppm)	10	10	0.2	0.2	2009	No	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits

Nitrite [measured as Nitrogen] (ppm)	1	1	0.05	0.05	0.05	2010	No	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits
Selenium (ppm)	NA	0.05	0.0005	NA		2009	No	Discharge from petroleum and metal refineries; Erosion of natural deposits; Discharge from mines
Thallium (ppm)	NA	0.002	0.0005	NA		2009	No	Discharge from electronics, glass, and Leaching from ore-processing sites; drug factories

Volatile Organic Contaminants

1,1,1-Trichloroethane (ppb)	200	200	0.49	NA		2008	No	Discharge from metal degreasing sites and other factories
1,1,2-Trichloroethane (ppb)	3	5	0.49	NA		2008	No	Discharge from industrial chemical factories
1,1-Dichloroethylene (ppb)	7	7	0.49	NA		2008	No	Discharge from industrial chemical factories
1,2,4-Trichlorobenzene (ppb)	70	70	0.49	NA		2008	No	Discharge from textile-finishing factories
1,2-Dichloroethane (ppb)	0	5	0.49	NA		2008	No	Discharge from industrial chemical factories
1,2-Dichloropropane (ppb)	0	5	0.49	NA		2008	No	Discharge from industrial chemical factories
Benzene (ppb)	0	5	0.49	NA		2008	No	Discharge from factories; Leaching from gas storage tanks and landfills
Carbon Tetrachloride (ppb)	0	5	0.49	NA		2008	No	Discharge from chemical plants and other industrial activities
cis-1,2-Dichloroethylene (ppb)	70	70	0.49	NA		2008	No	Discharge from industrial chemical factories
Dichloromethane (ppb)	0	5	0.49	NA		2008	No	Discharge from pharmaceutical and chemical factories
Ethylbenzene (ppb)	700	700	0.49	NA		2008	No	Discharge from petroleum refineries
o-Dichlorobenzene (ppb)	600	600	0.49	NA		2008	No	Discharge from industrial chemical factories
p-Dichlorobenzene (ppb)	75	75	0.49	NA		2008	No	Discharge from industrial chemical factories
Styrene (ppb)	100	100	0.49	NA		2008	No	Discharge from rubber and plastic factories; Leaching from landfills
Tetrachloroethylene (ppb)	0	5	0.49	NA		2008	No	Discharge from factories and dry cleaners
Toluene (ppm)	1	1	0.00049	NA		2008	No	Discharge from petroleum factories
trans-1,2-Dichloroethylene (ppb)	100	100	0.49	NA		2008	No	Discharge from industrial chemical factories
Trichloroethylene (ppb)	0	5	0.49	NA		2008	No	Discharge from metal degreasing sites and other factories
Vinyl Chloride (ppb)	0	2	0.49	NA		2008	No	Leaching from PVC piping; Discharge from plastics factories
Xylenes (ppm)	10	10	0.00049	NA		2008	No	Discharge from petroleum factories; Discharge from chemical factories

Contaminants	MCLG	AL	Your Water	Sample Date	# Samples Exceeding AL	Exceeds AL	Typical Source
Inorganic Contaminants							
✓ Copper - action level at consumer taps (ppm)	1.3	1.3	0.3	2007	0	No	Corrosion of household plumbing systems; Erosion of natural deposits
✓ Lead - action level at consumer taps (ppb)	0	15	3	2007	0	No	Corrosion of household plumbing systems; Erosion of natural deposits

Unit Descriptions	
Term	Definition
ppm	ppm: parts per million, or milligrams per liter (mg/L)
ppb	ppb: parts per billion, or micrograms per liter (µg/L)
NA	NA: not applicable
ND	ND: Not detected
NR	NR: Monitoring not required, but recommended.

Important Drinking Water Definitions	
Term	Definition
MCLG	MCLG: Maximum Contaminant Level Goal: 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.
MCL	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.
TT	TT: Treatment Technique: A required process intended to reduce the level of a contaminant in drinking water.
AL	AL: Action Level: The concentration of a contaminant which, if exceeded, triggers treatment or other requirements which a water system must follow.
Variances and Exemptions	Variances and Exemptions: State or EPA permission not to meet an MCL or a treatment technique under certain conditions.
MRDLG	MRDLG: Maximum residual disinfection level goal. 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 contaminants.
MRDL	MRDL: 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	MNR: Monitored Not Regulated
MPL	MPL: State Assigned Maximum Permissible Level

For more information please contact:

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

City of Pass Christian 2010 Drinking Water Report

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Monitoring and reporting of compliance data violations

DEMAND, 120
SUN, 118

Sun Herald

SOUTH MISSISSIPPI'S NEWSPAPER



2011 MAY 31 AM 9: 23

**A. GARNER RUSSELL & ASSOCIATES, INC. / CONSULTING ENGINEERS**520 33RD STREET, GULFPORT, MS 39507
P.O. BOX 1677, GULFPORT, MS 39502TEL (228) 863-0667
FAX (228) 863-5232

May 20, 2011

Mississippi Department of Health
Bureau of Public Water Supply
P.O. Box 1700
Jackson, MS 39315-1700**RE: City of Pass Christian
2010 Consumer Confidence Report**

To Whom It May Concern:

This is to advise and certify that the enclosed 2010 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 Sun Herald on May 11, 2011 (copy of published CCR 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,

Bob Escher, P.E.
City EngineerBE:kp:794
Enclosurecc: *Mayor McDermott*
Bruce Anthony