

NCBC Gulport - 2014 Water Quality Consumer Confidence Report (CCR)

Is my water safe?

We are pleased to present this year's Annual Water Quality Consumer Confidence Report as required by the Safe Drinking Water Act (SDWA). This report is designed to provide details about where your water comes from, what it contains, and how it compares to standards set by regulatory agencies. This report is a snapshot of last year's water quality. We are committed to providing you with information because informed consumer are our best allies.

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?

Naval Construction Battalion Center (NCBC) Gulport receives water from the Graham Ferry aquifer. The Graham Ferry aquifer is part of the Miocene aquifer system that consists of multiple layers of sand separated by beds of clay. A U.S. Geological Survey study of groundwater in Harrison County found that aquifers deeper than 500 feet were artesian. The groundwater from NCBC Gulport water supply is pumped from three wells that are well in excess of 700 feet.

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 best mechanism to get involved consists of participating in Housing Residence meetings. The most current information about the meetings may be obtained by contacting the Housing Office at (228) 871-2586 or Balfour Beatty Community at (228) 863-0424.

The Consumer Confidence Report (CCR) will not be mailed to customers, but is posted on the NCBC Gulport Environmental Support webpage. A hard copy of the CCR can be obtained from the Center's Environmental Office located in Building 322, Room 103 or by emailing a request for a copy to kenton.lottinger@navy.mil. The PWD Environmental Division encourages all consumers that have concerns or questions to contact them directly at (228) 871-2373.

Description of Water Treatment Process

Your water is treated by disinfection. Disinfection involves the addition of chlorine or other disinfectant to kill dangerous bacteria and microorganisms that may be in the water. Disinfection is considered to be one of the major public health advances of the 20th century.

Water Conservation Tips

Did you know that the average U.S. household uses approximately 400 gallons of water per day or 100 gallons per person per day? Luckily, there are many low-cost and no-cost ways to conserve water. Small changes can make a big difference – try one today and soon it will become second nature.

- ~ Take short showers - a 5 minute shower uses 4 to 5 gallons of water compared to up to 50 gallons for a bath.
- ~ Shut off water while brushing your teeth, washing your hair and shaving and save up to 500 gallons a month.
- ~ Use a water-efficient showerhead. They're inexpensive, easy to install, and can save you up to 750 gallons a month.
- ~ Run your clothes washer and dishwasher only when they are full. You can save up to 1,000 gallons a month.
- ~ Water plants only when necessary.
- ~ Fix leaky toilets and faucets. Faucet wash-

ers are inexpensive and take only a few minutes to replace. To check your toilet for a leak, place a few drops of food coloring in the tank and wait. If it seeps into the toilet bowl without flushing, you have a leak. Fixing it or replacing it with a new, more efficient model can save up to 1,000 gallons a month.

~ Adjust sprinklers so only your lawn is watered. Apply water only as fast as the soil can absorb it and during the cooler parts of the day to reduce evaporation.

~ Teach your kids about water conservation to ensure a future generation that uses water wisely. Make it a family effort to reduce next month's water bill!

~ Visit www.epa.gov/watersense for more information.

Cross Connection Control Survey

The purpose of this survey is to determine whether a cross-connection may exist at your home or business. A cross connection is an unprotected or improper connection to a public water distribution system that may cause contamination or pollution to enter the system. We are responsible for enforcing cross-connection control regulations and insuring that no contaminants can, under any flow conditions, enter the distribution system. If you have any of the devices listed below please contact us so that we can discuss the issue, and if needed, survey your connection and assist you in isolating it if that is necessary.

- ~ Boiler/ Radiant heater (water heaters not included)
- ~ Underground lawn sprinkler system
- ~ Pool or hot tub (whirlpool tubs not included)
- ~ Additional source(s) of water on the property
- ~ Decorative pond
- ~ Watering trough

Source Water Protection Tips

Protection of drinking water is everyone's responsibility. You can help protect your community's drinking water source in several ways:

- ~ Eliminate excess use of lawn and garden fertilizers and pesticides – they contain hazardous chemicals that can reach your drinking water source.
- ~ Pick up after your pets.
- ~ If you have your own septic system, properly maintain your system to reduce leaching to water sources or consider connecting to a public water system.
- ~ Dispose of chemicals properly; take used motor oil to a recycling center.
- ~ Volunteer in your community. Find a watershed or wellhead protection organization in your community and volunteer to help. If there are no active groups, consider starting one. Use EPA's Adopt Your Watershed to locate groups in your community, or visit the Watershed Information Network's How to Start a Watershed Team.
- ~ Organize a storm drain stenciling project

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with your local government or water supplier. Stencil a message next to the street drain reminding people "Dump No Waste - Drains to River" or "Protect Your Water." Produce and distribute a flyer for households to remind residents that storm drains dump directly into your local water body.

Other Information

To comply with a Department of Defense initiative to increase military personnel dental readiness, in late 2014 fluoride was added in accordance with EPA and MSDH standards. The system achieved optimal range during the first sampling event in December with 2 of 3 MSDH sample results being within range and one slightly below.

To comply with the "Regulation Governing Fluoridation of Community Water Supplies,"

Naval Construction Battalion Center Gulfport, is required to report certain results pertaining to fluoridation of our water system. The number of months in the previous calendar year in which average fluoride sample results were within the optimal range of 0.7-1.3 ppm was 1. The percentage of fluoride samples collected in the previous calendar year was within the optimal range of 0.7-1.3 ppm was 67%.

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. Naval Construction Battalion Center is responsible for providing high quality drinking water, but cannot control the variety of materi-

als 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://water.epa.gov/drink/hotline/index.cfm>.

NCBC Gulfport periodically tests for lead in your water in accordance with EPA and Mississippi State Department of Health (MSDH) regulatory requirements. Your water's lead level is well below the Action Level (AL) as indicated in the Water Quality Data Table.

Water Quality Data Table

In order to ensure that tap water is safe to drink, EPA prescribes regulations which limit the amount of contaminants in water provided by public water systems. The table below lists all of the drinking water contaminants that we detected during the calendar year of this report. Although many more contaminants were tested, only those substances listed below were found in your water. All sources of drinking water contain some naturally occurring contaminants. At low levels, these substances

are generally not harmful in our drinking water. Removing all contaminants would be extremely expensive, and in most cases, would not provide increased protection of public health. A few naturally occurring minerals may actually improve the taste of drinking water and have nutritional value at low levels. 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 moni-

tor for certain contaminants less than once per year because the concentrations of these contaminants do not vary significantly from year to year, or the system is not considered vulnerable to this type of contamination. As such, some of our data, though representative, may be more than one year old.

In this table you will find terms and abbreviations that might not be familiar to you. To help you better understand these terms, we have provided the definitions below the table.

| Contaminants | MCLG or MRDLG | MCL, TT, or MRDL | Your Water | Range | | Sample Date | Violation | Typical Source |
|---|---------------|------------------|------------|-------|------|-------------|-----------|---|
| | | | | Low | High | | | |
| Disinfectants & Disinfectant By-Products | | | | | | | | |
| (There is convincing evidence that addition of a disinfectant is necessary for control of microbial contaminants) | | | | | | | | |
| Chlorine (as Cl ₂) (ppm) | 4 | 4 | 0.9 | 0.5 | 2.17 | 2014 | No | Water additive used to control microbes |
| PTHMs [Total Trihalomethanes] (ppb) | NA | 80 | 7 | NA | | 2014 | No | By-product of drinking water disinfection |
| Haloacetic Acids (HAA5) (ppb) | NA | 60 | 3 | 1 | 3 | 2014 | No | By-product of drinking water chlorination |
| Inorganic Contaminants | | | | | | | | |
| Barium (ppm) | 2 | 2 | 0.0099 | NA | | 2014 | No | Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits |
| Fluoride (ppm) | 4 | 4 | 0.112 | NA | | 2014 | No | Erosion of natural deposits; Water additive which promotes strong teeth; Discharge from fertilizer and aluminum factories |
| Nitrate [measured as Nitrogen] (ppm) | 10 | 10 | 0.08 | 0.08 | 0.08 | 2014 | No | Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits |
| Nitrite [measured as Nitrogen] (ppm) | 1 | 1 | 0.02 | 0.02 | 0.02 | 2014 | No | Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits |
| Antimony (ppb) | 6 | 6 | 0.5 | NA | | 2014 | No | Discharge from petroleum refineries; fire retardants; ceramics; electronics; solder; test addition. |

| | | | | | | | | |
|---|-----|-----|--------|------|------|------|----|---|
| Arsenic (ppb) | 0 | 10 | 0.5 | NA | | 2014 | No | Erosion of natural deposits; Runoff from orchards; Runoff from glass and electronics production wastes |
| Beryllium (ppb) | 4 | 4 | 0.5 | NA | | 2014 | No | Discharge from metal refineries and coal-burning factories; Discharge from electrical, aerospace, and defense industries |
| Cadmium (ppb) | 5 | 5 | 0.5 | NA | | 2014 | No | Corrosion of galvanized pipes; Erosion of natural deposits; Discharge from metal refineries; runoff from waste batteries and paints |
| Chromium (ppb) | 100 | 100 | 3.2 | NA | | 2014 | No | Discharge from steel and pulp mills; Erosion of natural deposits |
| Cyanide [as Free Cn] (ppb) | 200 | 200 | 15 | 15 | 15 | 2014 | No | Discharge from plastic and fertilizer factories; Discharge from steel/metal factories |
| Mercury [Inorganic] (ppb) | 2 | 2 | 0.5 | NA | | 2014 | No | Erosion of natural deposits; Discharge from refineries and factories; Runoff from landfills; Runoff from cropland |
| Selenium (ppb) | 50 | 50 | 2.5 | NA | | 2014 | No | Discharge from petroleum and metal refineries; Erosion of natural deposits; Discharge from mines |
| Thallium (ppb) | 0.5 | 2 | 0.5 | NA | | 2014 | No | Discharge from electronics, glass, and Leaching from ore-processing sites; drug factories |
| Radioactive Contaminants | | | | | | | | |
| Uranium (ug/L) | 0 | 30 | 0.5 | 0.5 | 0.5 | 2012 | No | Erosion of natural deposits |
| Radium (combined 226/228) (pCi/L) | 0 | 5 | 0.3 | 0.29 | 0.31 | 2012 | No | Erosion of natural deposits |
| Volatile Organic Contaminants | | | | | | | | |
| Toluene (ppm) | 1 | 1 | 0.0005 | NA | | 2014 | No | Discharge from petroleum factories |
| Xylenes (ppm) | 10 | 10 | 0.0005 | NA | | 2014 | No | Discharge from petroleum factories; Discharge from chemical factories |
| Benzene (ppb) | 0 | 5 | 0.5 | NA | | 2014 | No | Discharge from factories; 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 |
| Chlorobenzene (monochlorobenzene) (ppb) | 100 | 100 | 0.5 | NA | | 2014 | No | Discharge from chemical and agricultural chemical factories |
| o-Dichlorobenzene (ppb) | 600 | 600 | 0.5 | NA | | 2014 | No | Discharge from industrial chemical factories |
| p-Dichlorobenzene (ppb) | 75 | 75 | 0.5 | NA | | 2014 | No | Discharge from industrial chemical factories |
| 1,2-Dichloroethane (ppb) | 0 | 5 | 0.5 | NA | | 2014 | No | Discharge from industrial chemical factories |
| 1,1-Dichloroethylene (ppb) | 7 | 7 | 0.5 | NA | | 2014 | No | Discharge from industrial chemical factories |
| cis-1,2-Dichloroethylene (ppb) | 70 | 70 | 0.5 | NA | | 2014 | No | Discharge from industrial chemical factories |
| trans-1,2-Dichloroethylene (ppb) | 100 | 100 | 0.5 | NA | | 2014 | No | Discharge from industrial chemical factories |

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| | | | | | | | | |
|------------------------------|-----|-----|-----|----|--|------|----|--|
| Dichloromethane (ppb) | 0 | 5 | 0.5 | NA | | 2014 | No | Discharge from pharmaceutical and chemical factories |
| 1,2-Dichloropropane (ppb) | 0 | 5 | 0.5 | NA | | 2014 | No | Discharge from industrial chemical factories |
| Ethylbenzene (ppb) | 700 | 700 | 0.5 | NA | | 2014 | No | Discharge from petroleum refineries |
| 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 factories and dry cleaners |
| 1,2,4-Trichlorobenzene (ppb) | 70 | 70 | 0.5 | NA | | 2014 | No | Discharge from textile-finishing factories |
| 1,1,1-Trichloroethane (ppb) | 200 | 200 | 0.5 | NA | | 2014 | No | Discharge from metal degreasing sites and other factories |
| 1,1,2-Trichloroethane (ppb) | 3 | 5 | 0.5 | NA | | 2014 | No | Discharge from industrial chemical factories |

| | | | | | | | | |
|-------------------------|---|---|-----|----|--|------|----|---|
| Trichloroethylene (ppb) | 0 | 5 | 0.5 | NA | | 2014 | No | Discharge from metal degreasing sites and other factories |
| Vinyl Chloride (ppb) | 0 | 2 | 0.5 | NA | | 2014 | No | Leaching from PVC piping; Discharge from plastics factories |

| <u>Contaminants</u> | <u>MCLG</u> | <u>AL</u> | <u>Your Water</u> | <u>Sample Date</u> | <u># Samples Exceeding AL</u> | <u>Exceeds AL</u> | <u>Typical Source</u> |
|--|-------------|-----------|-------------------|--------------------|-------------------------------|-------------------|--|
| Inorganic Contaminants | | | | | | | |
| Copper - action level at consumer taps (ppm) | 1.3 | 1.3 | 0.12 | 2012 | 0 | No | Corrosion of household plumbing systems; Erosion of natural deposits |
| Lead - action level at consumer taps (ppb) | 0 | 15 | 1.2 | 2012 | 0 | No | Corrosion of household plumbing systems; Erosion of natural deposits |

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Additional Contaminants

In an effort to insure the safest water possible the State has required us to monitor some contaminants not required by Federal regulations. Of those contaminants only the ones listed below were found in your water

| <u>Contaminants</u> | <u>State MCL</u> | <u>Your Water</u> | <u>Violation</u> | <u>Explanation and Comment</u> |
|---|------------------|---|------------------|---|
| Nitrate-Nitrite | 10 ppm | 0.1 ppm | No | Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits |
| Unit Descriptions | | | | |
| Term | | Definition | | |
| ug/L | | ug/L : Number of micrograms of substance in one liter of water | | |
| ppm | | ppm: parts per million, or milligrams per liter (mg/L) | | |
| ppb | | ppb: parts per billion, or micrograms per liter (µg/L) | | |
| pCi/L | | pCi/L: picocuries per liter (a measure of radioactivity) | | |
| 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 disinfectant 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 | | |

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For more information please contact:

Contact Name: Kenton Lottinger
 Address: 2401 Upper Nixon Ave., Bldg 322, Gulfport, MS 39501
 Phone: 228-871-2373
 Fax: 228-871-3116
 E-Mail: kenton.lottinger@navy.mil

This report may also be viewed at the NCBC Gulfport website:
https://www.cnbc.navy.mil/regions/cnrse/installations/nbc_gulfport/om/environmental_support.html