



Marco Island Water and Sewer Dept 2014 Water Quality Report MARCO SHORES

This report shows the water quality results and what they mean. It also provides important information about your water and how it relates to your health. The information in this report is based on facts and figures from the water purchased from Collier County Utilities and sampling results from the Marco Island Water and Sewer Department Monitoring Program. However, the U.S. Environmental Protection Agency (EPA) does not require us to perform all tests every year. When necessary, some data was obtained from prior years. As directed by the agencies that regulate our industry, only values from these tests that exceeded specified criteria are included. We will notify you immediately if there is any reason for concern about our water.

Since August 10th, 2007 the potable water to the Marco Shores community has been supplied by Collier County through a purchasing agreement with the City of Marco Island. The source water for the Collier County water system consists of groundwater from three well fields located in Golden Gate Estates. The North Hawthorn Well Field has 24 wells that provide water to the North County Regional Water Treatment Plant. The South Hawthorn Well Field has 42 wells that provide water to the South County Regional Water Treatment Plant. The Golden Gate Tamiami Well Field has 36 wells that provide water to both treatment plants.

The Florida Department of Environmental Protection (FDEP) performed a Source Water Assessment on the Collier County system in 2013. This assessment was conducted to provide information about any potential sources of contamination in the vicinity of the wells. Potential sources of contamination identified include underground petroleum storage tanks, injection wells, and industrial wastewater treatment plants. The assessment results are available on the FDEP Source Water Assessment and Protection Program website at www.dep.state.fl.us/swapp.

If you have any questions about this report or concerns about your water utility, please contact the Marco Island Water and Sewer Department at (239) 394-3880. You may also visit the FDEP web site at www.myflorida.com or call the EPA Safe Drinking Water Hotline at (800) 426-4791. The City would like the community to be informed about its water utility. If you would like to learn more, then please call the Water and Sewer Department for information about the next opportunity for public participation in decisions about your drinking water.

HOW DO I READ THIS?

It's easy. The table shows the results of our water-quality analyses. The column marked "Level Detected" shows the highest results from the last time tests were performed. "Likely Sources" shows where this substance usually originates. Descriptions below explain other important details. In this table you may find unfamiliar terms and abbreviations. To help you better understand these terms we've provided the following definitions:

Action Level (AL) - The concentration of a contaminant that, if exceeded, triggers treatment or other requirements that a water system must follow.

Maximum Contaminant Level (MCL) - 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 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.

Maximum residual disinfectant level (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.

Maximum residual disinfectant level goal (MRDLG) - The level of a drinking water disinfectant below which there is no known or expected risk to health.

Not Detected (ND) - This indicates that the substance was not found by laboratory analysis.

Parts per million (ppm) or Milligrams per liter (mg/l) - One part by weight of analyte to 1 million parts by weight of the water sample.

Parts per billion (ppb) or Micrograms per liter (µg/l) - One part by weight of analyte to 1 billion parts by weight of the water sample.

90th Percentile - An analytical result that is greater than or equal to 90% of the results.

WHAT CAN I EXPECT TO FIND IN MY DRINKING WATER?

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. Contaminants that may be present in source water include:

- (A) *Microbial contaminants*, such as viruses and bacteria, which may come from sewage treatment plants, septic systems, agricultural livestock operations, and wildlife.
- (B) *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.
- (C) *Pesticides and herbicides*, which may come from a variety of sources such as agriculture, urban storm water runoff, and residential uses.
- (D) *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.
- (E) *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, the EPA prescribes regulations, which limit the amount of certain contaminants in water provided by public water systems. The Food and Drug Administration (FDA) regulations establish limits for contaminants in bottled water, which must provide the same protection for public health.

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.

2014 ANNUAL DRINKING WATER QUALITY TEST RESULTS

Marco Island Utilities routinely monitors for contaminants in your drinking water according to Federal and State laws, rules, and regulations. Except where indicated otherwise, this report is based on the results of our monitoring for the period of January 1 to December 31, 2014 for **Marco Shores - PWS ID # 5110182**. The Environmental Protection Agency (EPA) requires monitoring of over 80 drinking water contaminants. Those contaminants listed in the table below are the only contaminants detected in your drinking water.

Inorganic Contaminants							
Contaminant and Unit of Measurement	Dates of sampling (mo./yr.)	MCL Violation Y/N	Level Detected	Range of Results	MCLG	MCL	Likely Source of Contamination
Fluoride (ppm)	4/14	N	0.60	NA	4	4	Erosion of natural deposits; discharge from fertilizer and aluminum factories
Nitrate (as Nitrogen) (ppm)	4/14	N	.096	NA	10	10	Runoff from fertilizer use; leaching from septic tanks; sewage; erosion of natural deposits
Sodium (ppm)	4/14	N	48.6	48.5 – 48.6	NA	160	Salt water intrusion; leaching from soil

TTHMs and Stage 2 Disinfectant/Disinfection By-Product (D/DBP)							
Contaminant and Unit of Measurement	Dates of sampling (mo./yr.)	MCL Violation Y/N	Level Detected	Range of Results	MCLG or MRDLG	MCL or MRDL	Likely Source of Contamination
Chloramines (ppm)	Monthly 2014	N	4.1	0.8 – 4.1	MRDLG = 4	MRDL = 4.0	Water additive used to control microbes
Haloacetic Acids (five) (HAA5) (ppb)	8/14	N	17.3	16.4 – 17.3	NA	MCL = 60	By-product of drinking water disinfection
TTHM [Total - trihalomethanes] (ppb)	8/14	N	47.1	44.4 – 47.1	NA	MCL = 80	By-product of drinking water disinfection

Lead and Copper (Tap Water)

Contaminant and Unit of Measurement	Dates of sampling (mo./yr.)	AL Violation Y/N	90th Percentile Result	No. of sampling sites exceeding the AL	MCLG	AL (Action Level)	Likely Source of Contamination
Copper (tap water) (ppm)	7/12	N	0.056	0	1.3	1.3	Corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives
Lead (tap water) (ppb)	7/12	N	6.0	0	0	15	Corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives

Unregulated Contaminants – Collier County Water Department has been monitoring for unregulated contaminants (UCs) as part of a study to help the U.S. Environmental Protection Agency (EPA) determine the occurrence in drinking water of UCs and whether or not these contaminants need to be regulated. At present, no health standards (for example, maximum contaminant levels) have been established for UCs. However, we are required to publish the analytical results of our UC monitoring in our annual water quality report. If you would like more information on the EPA's Unregulated Contaminants Monitoring Rule, please call the Safe Drinking Water Hotline at (800) 426-4791.

Contaminant and Unit of Measurement	Dates of sampling (mo./yr.)	MCL Violation Y/N	Level Detected	Range of Results	MCLG	MCL	Likely Source of Contamination
Chromium (ppb)	4/14 10/14	N	0.44	0.30-0.54	100	100	Discharge from steel and pulp mills; erosion of natural deposits
Chromium, Hexavalent (ppb)	4/14 10/14	N	0.37	0.15-0.37	NA	NA	Naturally-occurring element; used in making steel and other alloys; used for chrome plating, dyes and pigments, leather tanning, and wood preservation; erosion of natural deposits
Molybdenum (ppb)	4/14 10/14	N	0.47	0.44-0.47	NA	NA	Naturally-occurring element found in ores and present in plants, animals and bacteria; commonly used form molybdenum trioxide used as a chemical reagent; erosion of natural deposits
Strontium (ppb)	4/14 10/14	N	111	60.6-111	NA	NA	Naturally-occurring element; commercial use of strontium has been in the faceplate glass of cathode-ray tube televisions to block x-ray emissions; erosion of natural deposits
Vanadium (ppb)	4/14 10/14	N	1.7	0.29-1.7	NA	NA	Naturally-occurring elemental metal; used as a chemical intermediate and a catalyst; erosion of natural deposits

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. The City 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 (800-426-4791) or at www.epa.gov/safewater/lead.

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/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 (800-426-4791).

The City would like you to understand the efforts it makes to continually improve the water treatment process and protect our water resources. The City is committed to ensuring the quality of your water. If you have any questions or concerns about the information provided, then please feel free to call any of the numbers listed above.