

VILLAGE OF ROAMING SHORES

Drinking Water Consumer Confidence Report

For 2010

The Village of Roaming Shores has prepared the following report to provide information to you, the consumer, on the quality of our drinking water. Included within this report is general health information, water quality test results, how to participate in decisions concerning your drinking water and water system contacts.

What's the source of your drinking water?

The Village of Roaming Shores receives its drinking water from a bulk water agreement with Aqua Ohio, Inc formerly "Consumers Ohio Water Company". Aqua Ohio purchases its water from Ohio American Water Company in Ashtabula. The Ohio American Water Company treats water drawn from the waters of Lake Erie. The waters of Lake Erie are considered a surface water source and require extensive treatment before it can be used as a drinking water. At their Water treatment plants, certified operators further ensure the quality of the water through chemical application and monitoring techniques. They treat water prior to traveling through part of more than 1,550 miles distribution system to your homes.

(Source: LAKE ERIE – Ashtabula)

Our Emergency Water Supply.

The Village of Roaming Shores also has a **back-up** connection with the Village of Rock Creek. During 2010, we used – 0 - gallons from this connection over – 0 - days. This report does not contain information on the water quality received from the Village of Rock Creek, but a copy of their consumer confidence report can be obtained by contacting the Village office at 440-563-3992.

What are sources of contamination to drinking water?

The sources of drinking water both tap water and bottled water includes 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, USEPA prescribes regulations which limit the amount of certain contaminants in water provided by public water systems. 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 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 (1-800-426-4791)

Who needs 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 infection. 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 microbial contaminants are available from the Safe Drinking Water Hotline (1-800-426-4791).

About your drinking water.

The EPA requires regular sampling to ensure drinking water safety. The Village of Roaming Shores conducted sampling for *bacteria, chlorine residual* and Ohio American conducted sampling for *inorganic; synthetic organic; volatile organic; radiological*; contaminant sampling during 2010. Samples were collected for a total of more than 160 different contaminants most of which were not detected in the Ohio American water supply. The Ohio EPA requires us to monitor for some contaminants less than once per year because the concentrations of these contaminants do not change frequently. Some of our data, though accurate, is more than one year old.

Listed below is information on those contaminants that were found in the Village of Roaming Shores Drinking Water.

Contaminants (Units)	MCLG	MCL	Level Found	Range of Detection's	Violation	Sample Year	Typical Source of Contaminants
Microbiological Contaminants							
Total Coliform Bacteria	Total Coliform Negative	<u>Total Coliform</u> <u>Negative</u>	0	Negative To Positive	No	2010	Naturally present in the environment
Turbidity, NTU. Turbidity(% samples meeting standard)	NA NA	TT TT	1.57 -- 97.1%	0.03- 1.57	No yes	2010 2010	Soil run off
Inorganic Contaminants							
Contaminant (Units)	MCGL	MCL	Level Found	Range of Detection's	Violation	Sample Year	Typical Source of Contaminants
Lead, (ppb)	15	AL=15	< 2.0	NA	No	2010	Corrosion of household plumbing systems; Erosion of natural Deposits
Copper, (ppm)	1.3	AL=1.3	98.0	NA	No	2010	Corrosion of household plumbing systems; Erosion of natural deposits; Leaching from wood preservatives.

Inorganic Contaminants – continued.							
Contaminants (units)	MCGL	MCL	Level Found	Range of Detection's	Violation	Sample Year	Typical Source of Contaminants
Barium, (ppm)	2	2	0.02	NA	No	2010	Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits.
Arsenic (ppb)	0	0	0	NA	NA	0	Erosion of natural deposits; Runoff from orchards; Runoff from glass and electronics production wastes.
Fluoride, (ppm)	4	4	1.05	0.85-1.78	No	2010	Erosion of natural deposits; Water additive that promotes strong teeth; Discharge from fertilizer and aluminum factories.
Nitrate, (ppm)	10	10	0.33	0.02 - 0.33	No	2010	Run off from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits.
Selenium, (ppb)	0	0	0	NA	No	2007	Discharge from petroleum and metal refineries; Erosion of natural deposits; Discharge from mines.
Sulfate, (ppm)	NA	NA	38.5	NA	No	2010	Naturally occurring in the environment.
Sodium (ppm)	NA	NA	12.5	NA	No	2010	Naturally occurring in the environment and a by-product of the water treatment process.
Nickle,(ppb)	100	100	1.8	NA	NA	2010	Erosion of natural deposits; Discharge from electroplating, Stainless steel, and alloy Products mining

Radiological Contaminants							
Contaminant (Units)	MCGL	MCL	Level Found	Range of Detection's	Violations	Sample Year	Typical Source of Contaminants
Beta/Photon Emitters- Units- (pCi/L)	01	AL=50	4.5	NA	No	2003	Decay of natural and man-made deposits
Synthetic Organic Contaminants Contaminant (Units)	Including MCGL	Pesticides MCL	And Level Found	Herbicides Range of Detection's	Violations	Sample Year	Typical Source of Contaminants

Picloram (ppb)	0	0	0	0	0	0	Herbicide runoff
Atrazine(ppb)	0	0	0	0	0	0	Herbicide runoff
Volatile Organic Contaminants							
Contaminant (Units)	MCLG	MCL	Level Found	Range of Detection's	Violation	Sample Year	Typical Source of Contaminats
*Bromodichloromet hane , (ppb)	NA	TT	15.0	NA	No	2010	By-product of drinking water chlorination.
*Dibromochloromet hane, (ppb)	NA	NA	4.7	NA	No	2010	By-product of drinking water chlorination.
*Chloroform, (ppb)	NA	NA	54.5	NA	No	2010	By-product of drinking water chlorination.
Haloacetic Acid For I.D.S.E. (ppb)	NA	60	38.0	17.7---38.0	No	2010	By-product of drinking water chlorination.
TTHM's I.D.S.E (ppb)	NA	80	59.7	18.3---59.7	No	2010	By-product of drinking water chlorination.
TTHM's [Total trihalomethane] (ppb)	NA	80	72.4	28.4---72.4	No	2010	By-product of drinking water chlorination.
Haloacetic Acid (ppb)	NA	60	49.9	16.3---49.9	No	2010	By-product of drinking water chlorination
Total Organic Carbon	NA	TT	1.00	1.0-1.77	No	2010	Naturally present in the environment

Turbidity is a measure of the cloudiness of water and is an indication of the effectiveness of our filtration system. The turbidity limit set by the EPA is 0.05 NTU in 95% of the daily samples and shall not exceed 5 NTU at any time. As reported above the **Ohio- American, Inc** highest recorded turbidity result for 2010 was 1.57 NTU and lowest monthly percentage of samples meeting the turbidity limits was 97.1%.

The following violations were received by the Ohio American Water-Ashtabula District: On December 10, 2010 O.A. Water failed to provide adequate filtration resulting in turbid or cloudy water, the problem was resolved that day. Turbidity has no health effects. However, turbidity can interfere with disinfection and provide a medium for microbial growth. Turbidity may indicate the presence of disease-causing organisms. These organisms include bacteria, viruses that can cause symptoms such as nausea, cramps, diarrhea and associated headaches. On January 8, 11, 16, 17, 25, 29 and 31 as well as February 1, 3, 13, and 22, 2010, O.A. Water failed to provide sufficient disinfection treatment time for drinking water. During these dates, the disinfecting chemical (chlorine) was not in contact with the water for at least the minimum contact time prior to being distributed to customers during peak-use hours. Inadequately treated water may contain disease-causing organisms. These organisms include bacteria, viruses and parasites that can cause symptoms such as nausea, cramps, diarrhea, and associated headaches. O.A. Water-Ashtabula District has taken the following steps to ensure required disinfection is maintained in the future. New baffling factors with longer contact times have been assigned to the finished water storage tanks by The Ohio Environmental Protection Agency. In addition, The District has revised operational procedures to provide higher chlorine levels combined with lower pumping rates when needed to ensure adequate disinfection to occur. For more information, please contact Mike Perrigey of Ohio-American Water Company at (740)383-0926.

The Village of Roaming Shores provides additional treatment. Does not apply to Non-Village Residents

The Village water department provides additional chlorination to the water received from Aqua Ohio, Inc to ensure water quality in the distribution system. The Ohio EPA recommends that free chlorine residuals be maintained at 1.0-0.5 ppm and no less than 0.2 ppm in the distribution system.

The Village performed over 365 chlorine residual tests last year and continually monitors feed 24 hours a day to ensure water quality and safety. The results of our chlorine tests for the year 2010, are as follows : Average chlorine residual 1.10 ppm. Maximum chlorine residual 2.0ppm and minimum chlorine residual 0.5 ppm.

The Public is invited to participate in making decisions concerning your drinking water.

Public participation and comments are encouraged at regular meetings of Village of Roaming Shores Utility Study Commission which meets on the first Wednesday of every quarter at 7:30PM at the Village Hall on Hayford Road.

For more information on your drinking water report contact Christopher Tadsen at the Village of Roaming Shores Office, Phone number (440)563 -3520 _____, or by mail at P.O. Box 237, Roaming Shores, Ohio 44084.

Definitions and Notes of some of the terms and items contained with in the report.

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 Contaminant level (MCL): The highest level of contaminant that is allowed in drinking water. MCLs are set as close to the MCLGs as feasible using the best available treatment technology.

Parts per Million (ppm) or Milligrams per Liter (mg/L) are units of measure for concentration of a contaminant. A part per million corresponds to one second in a little over 11.5 days.

Parts per Billion (ppb) or Micrograms per Liter (µg/L) are units of measure for concentration of a contaminant. A part per billion corresponds to one second in 31.7 years.

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

Treatment Technique (TT): A required process intended to reduce the level of a contaminant in drinking water.

The “<” symbol: A symbol which means less than. A result of <5 means that the lowest level that could be detected was 5 and the contaminant in that sample was not detected.

N/A- Not applicable

Level Found – This column represents average of the samples results collected, in some cases, it may represent a single sample if only one sample was collected.

Chlorine Residual- The amount of chlorine (combine and free available chlorine) remaining in water at the end of a specified contact period following chlorination.

Range of Detection’s– This column represents a range of individual samples results, from the lowest to highest that were collected during the year.

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

Turbidity- A measure of the cloudiness of water and indication of filtration effectiveness. 95% of daily samples must be less than 0.5 NTU (unit of measure) and turbidity must not exceed 5 NTU.

Total Trihalomethanes (TTHM's) – Sum of Bromodichloromethane, Bromoform, Chlorodibromomethane, and Chloroform. Some people who drink water containing trihalomethanes in excess of the MCL over many years may experience problems with their liver, kidneys, or central nervous system, and may have an increased risk of getting cancer.

Barium – Some people who drink water containing Barium in excess of the MCL over many years could experience and increase in their blood pressure.

Copper – is an essential nutrient, but some people who drink water containing copper in excess of the Action Level over a relatively short timer could experience gastrointestinal distress or suffer liver or kidney damage. People with Wilson's Disease should consult their doctor.

Lead – Infants and children who drink water in excess of the Action Level could experience delays in their physical or mental development. Children could show slight deficits in attention span and learning abilities. Adults who drink this water over many years could develop kidney problems or high blood pressure.

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. Village Of Roaming Shores 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 at 1-800-426-4791

<http://www.epa.gov/safewater/lead>

Fluoride – Some people who drink water containing fluoride well in excess of the MCL over many years could get bone disease including pain in tenderness of the bones.

Picloram – Some people who drink water containing picloram in excess of the MCL over many years could experience problems with their liver.

Selenium – Selenium is an essential nutrient. However, some people who drink water containing selenium in excess of the MCL over many years could experience hair or fingernail losses, numbness in fingers or toes, or problems with circulation.

Roaming Shores Village currently has an unconditioned license to operate our water system.