

The Water We Drink

We are please to present to you this year's Annual Drinking Water Quality Report. This report is designed to inform you about the quality water and services we deliver to you every day. Our constant goal is to provide you with a safe and dependable supply of drinking water.

We want you to understand the efforts we make to continually improve the water treatment process and protect our water resources. We are committed to ensuring the quality of our water.

The Village of Dunkirk's Water System is served by two wells, drilled to a depth of 210 feet these wells provide between 105 and 160 gallons per minute. The village uses on the average of 90,000 gallons-per-day. The wells are located at the water treatment plant on SR 81.

The Village completed a Wellhead Protection Plan, which is available for public review. Appointments can be made to review the plan by contacting the water treatment plant at (419) 759-2102. This plan identifies the boundaries and size of the underground aquifer and the direction of flow of water to the Village's well field. A citizen's committee has been appointed to assist the Village with explaining the importance of our well water supply

If you have any questions about this report or concerning your water utility, please contact Paul Cramer at (419) 759-2102. You can participate in decisions regarding your water by attending a Council meeting. The Council meets on the 1st Monday of each month at 7:00 at 201 N. Main Street, Village Hall, and the Board of Public Affairs meets on the 2nd and 4th Monday of each month at 5:00 p.m. Your input is always welcome.

Village of Dunkirk
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Dunkirk, OH 45836

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Village of Dunkirk

**2007 Annual
Drinking Water
Quality Report**



The sources of drinking water - both tap 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 also can 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 the tap water is safe to drink, EPA 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.

The Village of Dunkirk routinely monitors for contaminants in your drinking water according to Federal and State laws. The table included shows the results of our monitoring for the period through December 31st, 2007.

All drinking water, including bottled drinking water, may reasonably be expected to contain at least small amounts of some contaminants. It's important to remember the presence of these contaminants does not necessarily pose a health risk.

Please note:

Some people may be more vulnerable to drinking water contaminants 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 individuals, and infants can be particularly at risk from infections.

These people should seek advice from their health care providers about drinking water. EPA/CDC guidelines regarding the appropriate means to lessen the risk of infection by cryptosporidium and other microbiological contaminants are available from the safe drinking Water Hotline at (800) 426-4791.

More information about contaminants and potential health effects can be obtained by calling the Environmental Protection Agency's Safe Drinking Water Hotline, (800) 426-4791.

EPA Safe Drinking Water Hotline
(800) 426-4791
Call for any questions
concerning water quality

Results							
Contaminants	MCLG	MCL	Level Found	Range of Detection	Violation	Sample Year	Typical Contaminant Source
Inorganic							
Fluoride (ppm)	4	4	1.74	n/a	No	2006	Erosion of natural deposits
Barium (ppm)	2	2	.01	n/a	No	2006	Erosion of natural deposits
Nitrate (ppm)	10	10	.49	n/a	No	2007	Erosion of natural deposits
Lead (ppb)	0	AL=15	8.6	n/a	No	2005	Corrosion of household plumbing systems
Zero out of 10 samples was found to have lead levels in excess of the lead action level of 15 ppb							
Copper (ppb)	1.3	AL-1.3	.32	n/a	No	2005	Corrosion of household plumbing systems
Zero out of 10 samples was found to have copper levels in excess of the copper action level of 13 ppm							
Total Coliform Bacteria							
2 positive sample	0	1	1		No	2005	Coliforms are bacteria that are naturally present in the environment and are used as an indicator that other, potentially-harmful, bacteria may be present. Coliforms were found in more samples than allowed and this was a warning of potential problems.
1 positive sample	0	1	1		No	2006	
Disinfection By-products							
Total Trihalomethane (ug/l)		80	4.8		No	2007	By-product of drinking water chlorination
Residual Disinfectants							
Total Chlorine (ppm)	MRDL = 4	MRDL G-4	1.14	1.13 1.16	N	2006	Water additive used to control microbes

The following terms apply to the chart above:

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.

Part per Billion (ppb) or Micrograms per Liter (ug/l): 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 a water system must follow.

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

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

Maximum Residual Disinfect Level (MRDL): The highest residual disinfectant level allowed.

Maximum Residual Disinfectant level Goal (MRDLG): The level of residual disinfectant below which there is no known or expected risk to health.