

VILLAGE OF BURR RIDGE PUBLIC WATER SUPPLY

2014 CONSUMER CONFIDENCE REPORT



The Village of Burr Ridge, in compliance with The Safe Drinking Water Act (SDWA), is issuing this year's Consumer Confidence Report (CCR) for the period of January 1 to December 31, 2013. This report is intended to provide you with important information about the quality and source of your drinking water. During 2013, the water provided by the Village met all USEPA and state drinking water quality standards and we are pleased to report that there were no violations during this period. The Village diligently monitors the water distribution system by taking a minimum of 10 samples for bacteriological testing each month. We are committed to providing you with the safest and most reliable water supply possible. Periodically, water issues are addressed by the Village Board of Trustees. The Village Board meets on the second and fourth Monday of each month at 7:00 PM at the Burr Ridge Village Hall, 7660 S. County Line Rd, Burr Ridge, IL 60527. Public comments or statements regarding the public water supply are welcome. If you have any questions about this report or concerns about your water system, please contact James Lukas, Water and Sewer Division of the Village of Burr Ridge Public Works Department at (630) 323-4733 ext. 6050. This report is also available on the Village of Burr Ridge website <http://www.burr-ridge.gov>.

SOURCE WATER

In 2013, all the water that the Village of Burr Ridge distributed came from Lake Michigan. Lake Michigan water, is treated by the City of Chicago, and is purchased through the Village of Bedford Park. Burr Ridge also has three stand-by wells that **were not used** during 2013. These wells are tested and maintained in working order and are intended to be used **in case of emergency only**.

Lake Michigan is a surface water supply, which provides drinking water for Chicago and 125 suburban communities. It serves as a source of drinking water, as a place for swimming and fishing, and is utilized for both recreational boating and commercial shipping. Further information on our community's source water assessment is available on the USGS web site at <http://usgs.gov>, the Illinois Environmental Protection Agency (IEPA) at <http://www.epa.state.il.us/water/>, the City of Chicago Department of Water Management at <http://www.cityofchicago.org/WaterManagement/> or by calling the Groundwater Section of the Illinois EPA at 217-785-4787.

The sources of drinking water (both tap water and bottled water) include rivers, lakes, streams, ponds, reservoirs, springs and groundwater 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:

- Microbial contaminants, such as viruses and bacteria, which 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;
- Radioactive contaminants, which can be naturally occurring or be the result of oil and gas production and mining activities.

EPA regulations restrict industrial and sewage treatment plant effluents from entering Lake Michigan, thereby reducing the risk of having these contaminants in the surface water supply.

In order to ensure that tap water is safe to drink, the USEPA prescribes regulations that limit the amount of certain contaminants in water provided by public water systems. The 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 USEPA's Safe Drinking Water Hotline (1-800-426-4791).

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. USEPA/CDC guidelines on appropriate means to lessen the risk of infection by cryptosporidium and other microbial contaminants are available from the USEPA's Safe Drinking Water Hotline (1-800-426-4791).

ABOUT THE DATA & DATA TABLE FOOTNOTES

Turbidity - Turbidity is a measure of the cloudiness of the water. Chicago monitors it because it is a good indicator of water quality and the effectiveness of their filtration system and disinfectants.

Lead - Infants and young children are typically more vulnerable to lead in drinking water than the general population. It is possible that lead levels in your home may be higher than in other homes in the community as a result of materials used in your home's plumbing. If you are concerned about elevated lead levels in your home's water, you may wish to flush your tap for 30 seconds to 2 minutes before using the water, or have your water tested by an independent laboratory. Testing for lead done by the Village of Burr Ridge shows results either not detectable or well below the Action Level. Additional general information is available from the USEPA Safe Drinking Water Hotline at 1-800-426-4791.

Asbestos - Chicago examines samples for asbestos fibers on a routine basis. The EPA has determined that asbestos fibers greater than 10 microns in length could potentially cause lung cancer. They have not found fibers that are in this size category.

Haloacetic acids - Additional disinfectant by-products are being monitored. Chicago began analyzing for these compounds in July 1998. In December, 1998 the rule was finalized which set an MCL for HAAs at 60 ppb. Thus far, testing shows that Chicago is averaging 11.8 ppb, which is comfortably below the regulated level. The range of detections was 8.0 - 22.0 ppb. The Village of Burr Ridge also monitors for these by-products and our testing also shows results well below the regulated level.

Cryptosporidium - Analyses have been conducted monthly on the source water since April 1993. Cryptosporidium has not been detected in these samples. Treatment processes have been optimized to ensure that if there are cryptosporidium cysts in the source water, they will be removed during the treatment process. By maintaining a low turbidity and thereby removing the particles from the water, the threat of cryptosporidium organisms getting into the drinking water system is greatly reduced.

Fluoride - Fluoride is added to the water supply to help promote strong teeth. The Illinois Department of Public Health recommends an optimal fluoride range of 0.9 mg/l to 1.2 mg/l.

Sodium - There currently is not a state or federal Maximum Contaminant Level for sodium. Monitoring is required to provide information to consumers and health officials that are concerned about sodium intake due to dietary precautions. If you are on a sodium-restricted diet, you should consult a physician about the level of sodium in the water.

Voluntary testing - The Chicago Water Department and the Village of Burr Ridge both monitor for contaminants, which are proposed to be regulated, or for which no standards currently exist but which could provide useful information in assessing the quality of the source water or the drinking water.

Unregulated Contaminants - A maximum contaminant level (MCL) for other contaminants has not been established by either state or federal regulations, nor has mandatory health effects language. The purpose for monitoring other contaminants is to assist USEPA in determining the occurrence of unregulated contaminants in drinking water, and whether future regulation is warranted.

DEFINITION OF TERMS

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 a contaminant that is allowed in drinking water. MCLs are set as close to the MCLGs as feasible using the best available treatment technology.

Level Found: This column represents an average of sample result data collected during the CCR calendar year. In some cases, it may represent a single sample if only one sample was collected.

Range of Detections: This column represents a range of individual sample results, from lowest to highest that were collected during the CCR calendar year.

Collection Date: If a date appears in this column, the Illinois EPA requires monitoring for this contaminant less than once per year because the concentrations do not frequently change. If no date appears in the column, monitoring for this contaminant was conducted during the CCR calendar year.

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.

Violation (V): If a violation had occurred an explanation of the violation and corrective measures taken would be explained in the informational section of this report

nd: Not detectable at testing limits.

n/a: Not applicable.

Units of Measure
ppb - Parts per billion, or micrograms per liter (ug/l)
ppm - Parts per million, or milligrams per liter
NTU - Nephelometric Turbidity Unit, used to measure cloudiness in drinking water
%<0.5 NTU - Percent samples less than 0.5 NTU
pCi/L - Picocuries per liter, used to measure radioactivity

CITY OF CHICAGO 2013 VIOLATION SUMMARY TABLE

NO DRINKING WATER QUALITY VIOLATIONS WERE RECORDED DURING 2013

CITY OF CHICAGO 2013 WATER QUALITY DATA

Regulated Contaminants Detected

Contaminant (unit of measurement) Typical Source of Contaminant	MCLG	MCL	Highest Level Detected	Range of Detections	Violation	Collection Date
<u>Microbial Contaminants</u>						
TOTAL COLIFORM BACTERIA (% positive / mo.) Human and animal fecal waste. Naturally present in environment.	0	5%	0.6	0	--	2013
FECAL COLIFORM AND E.COLI* (# positive / mo.) Human and animal fecal waste. Naturally present in environment. *No more than 5.0% samples total coliform-positive in a month. (For water systems that collect fewer than 40 routine samples per month, no more than one sample can be total coliform-positive per month.) Every sample that has total coliform must be analyzed for either fecal coliforms or E. coli if two consecutive TC-positive samples, and one is also positive for E. coli fecal coliforms, system has an acute MCL violation.	0	0	0	n/a	--	2013
TURBIDITY (% < 0.3 NTU) Soil runoff. Lowest monthly percent meeting limit.	n/a	TT	100%	100% - 100%	--	2013
TURBIDITY (NTU) Soil runoff. Highest single measurement.	n/a	TT(1NTUmax)	0.18	n/a	--	2013
<u>Inorganic Contaminants</u>						
BARIUM (ppm) Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits.	2	2	0.0205	0.0204 - 0.0205	--	2013
ARSENIC (ppb) Erosion of natural deposits; runoff from orchards; Runoff from glass and electronics production wastes.	0	10	0.77	0.519 - 0.767	--	2013
Selenium (ppb) Discharge from petroleum and metal refineries; Erosion of natural deposits; discharge from mines.	50	50	2.48	ND - 2.48	--	2013
NITRATE (AS NITROGEN) (ppm) Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits.	10	10	0.362	0.351 - 0.362	--	2013
TOTAL NITRATE & NITRITE (AS NITROGEN) (ppm) Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits.	10	10	0.362	0.351 - 0.362	--	2013
<u>Lead and Copper</u>						
COPPER (ppm) Corrosion of household plumbing systems; Erosion of natural Deposits.	1.3	AL = 1.3	0.046 (90 th percentile)	0 sites exceeding AL	--	8/23/2012
LEAD (ppb) Corrosion of household plumbing systems; Erosion of natural deposits	0	AL = 15	6.6 (90 th percentile)	1 site exceeding AL	--	8/23/2012
<u>Disinfectants/Disinfection By-Products</u>						
CHLORINE (as Cl ₂) (ppm) Drinking water disinfectant	4	4	1	1 - 1	--	12/31/2013
TTHMs (TOTAL TRIHALOMETHANES) (ppb) By-product of drinking water disinfection.	n/a	80	22	9.7 - 34.8	--	2013
HAA5 (HALOACETIC ACIDS) (ppb) By-product of drinking water disinfection.	n/a	60	11	0 - 17.6	--	2013
TTHMs, HAA5s and Chlorine are for the City of Chicago distribution system. *Highest Running Annual Average Computed.						
<u>Total Organic Carbon</u>						
The percentage of Total Organic Carbon (TOC) removal was measured each month and the system met all TOC removal requirements set by IEPA						
<u>Unregulated Contaminants</u>						
SULFATE (ppm) Erosion of naturally occurring deposits.	n/a	n/a	11.9	ND - 11.9	--	2013
SODIUM (ppm) Erosion of naturally occurring deposits; Used as water softener	n/a	n/a	7.84	7.42 - 7.84	--	2013
<u>State Regulated Contaminants</u>						
FLOURIDE (ppm) Water additive, which promotes strong teeth.	4	4	0.9	0.856 - 0.922	--	2013
<u>Radioactive Contaminants</u>						
COMBINED RADIUM (226/228) (pCi/L) Decay of natural and man-made deposits.	0	5	1.38	1.30 - 1.38	--	3/17/2008
GROSS ALPHA excluding radon and uranium (pCi/L) Decay of natural and man-made deposits.	0	15	0.88	0.09 - 0.88	--	3/17/2008

Voluntary Monitoring

The City of Chicago has continued monitoring for Cryptosporidium, Giardia and E. coli in its source water as part of its water quality program. To date, Cryptosporidium has not been detected in these samples, but Giardia was detected in one raw lake water sample collected in September 2010. Treatment processes have been optimized to provide effective barriers for removal of Cryptosporidium oocysts and Giardia cysts in the source water, effectively removing these organisms in the treatment process. By maintaining low turbidity through the removal of particles from the water, the possibility of Cryptosporidium and Giardia organisms getting into the drinking water system is greatly reduced.

In 2013, CDWM has also continued monitoring for hexavalent chromium, also known as chromium-6. USEPA has not yet established a standard for chromium-6, a contaminant of concern which has both natural and industrial sources.

VILLAGE OF BEDFORD PARK 2013 WATER QUALITY DATA

NO DRINKING WATER QUALITY VIOLATIONS WERE RECORDED DURING 2013

Regulated Contaminants Detected

Regulated Contaminant Likely Source of Contamination	MCLG	MCL	Highest Level Detected	Range of Detections	Violation	Collection Date
CHLORINE (ppm) Drinking water disinfectant used to control microbes.	4	4	0.7	0.6 – 0.8	No	12/31/2013
TOTAL HALOACETIC ACIDS (HAA5)* (ppb) By-product of drinking water disinfection.	n/a	60	11	9.1 – 9.1	No	2013
TOTAL TRIHALOMETHANES (TTHM)* (ppb) By-product of drinking water disinfection.	n/a	80	25	19.7 – 19.7	No	2013

*Not all sample results may have been used for calculating the Highest Level Detected because some results may be part of an evaluation to determine where compliance sampling should occur in the future.

VILLAGE OF BURR RIDGE 2013 VIOLATION SUMMARY TABLE

NO DRINKING WATER QUALITY VIOLATIONS WERE RECORDED DURING 2013

VILLAGE OF BURR RIDGE 2013 WATER QUALITY DATA

Regulated Contaminants Detected

Contaminant (unit of measure) Likely Source of Contamination	MCLG	MCL	Level Found	Range of Detections	Violation	Collection Date
<u>Microbial Contaminants</u> TOTAL COLIFORM BACTERIA (# positive samples/mo.) Human and animal fecal waste. Naturally present in environment.	0	>1	0	0	No	2013 (monthly)
Contaminant (unit of measure) Likely Source of Contamination	MCLG	Action Level (AL)	90 th Percentile	No. of Sites Over AL	Violation	Collection Date

Inorganic Contaminants

LEAD (ppb) Corrosion of household plumbing systems; Erosion of natural deposits. Naturally present in the environment.	0	15	3.5	1	No	6/1/2011 – 9/30/2011* (3 year schedule)
COPPER (ppm) Corrosion of household plumbing systems; Erosion of natural deposits.	1.3	1.3	0.077	0	No	6/1/2011 -9/30/2011* (3 year schedule)

Note: The state requires monitoring of certain contaminants less than once per year because the concentrations of these contaminants do not change frequently. Therefore, some of this data may be more than one year old.

Regulated Contaminant Likely Source of Contamination	MCLG	MCL	Highest Level Detected	Range of Detections	Violation	Collection Date
<u>Disinfectants/Disinfection By-Products</u> CHLORINE (ppm) Drinking water disinfectant used to control microbes.	4	4	0.8	0.5 – 1	No	2013
TOTAL HALOACETIC ACIDS (HAA5)* (ppb) By-product of drinking water chlorination.	n/a	60	17	5 – 21.9	No	2013
TOTAL TRIHALOMETHANES (TTHM)* (ppb) By-product of drinking water chlorination.	n/a	80	37	15 – 40.85	No	2013

*Not all sample results may have been used for calculating the Highest Level Detected because some results may be part of an evaluation to determine where compliance sampling should occur in the future.

VILLAGE OF BURR RIDGE EMERGENCY STANDBY WELL WATER QUALITY DATA

(EMERGENCY STANDBY WELL WATER WAS NOT USED IN VILLAGE WATER DISTRIBUTION SYSTEM DURING 2013)

Regulated Contaminant Likely Source of Contamination	MCLG	MCL	Highest Level Detected	Range of Detections	Violation	Collection Date
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Inorganic Contaminants

Arsenic (ppb) Erosion of natural deposits; runoff from orchards and glass And electronics production wastes.	0	10	5.5	4 – 5.5	No	10/19/2011
Barium (ppm) Discharge of drilling wastes and metal refineries; erosion of natural deposits.	2	2	0.052	0.022 – 0.052	No	10/19/2011
Fluoride (ppm) Erosion of natural deposits; water additive which promotes strong teeth. Discharge from fertilizer and aluminum factories.	4	4	0.33	0.26 – 0.33	No	10/19/2011
Iron (ppm) Erosion of natural deposits.	n/a	1.0	3.4	1.4 – 3.4	No	10/19/2011
Manganese (ppb) Erosion of natural deposits.	150	150	69	17 – 69	No	10/19/2011
Sodium (ppm) Erosion of natural deposits.	n/a	n/a	33	28 – 33	No	10/19/2011
Zinc (ppm)	5	5	0.017	0 – 0.017	No	10/19/2011

Radioactive Contaminants

GROSS ALPHA excluding radon and uranium (pCi/L) Decay of natural and man-made deposits.	0	15	2.71	0 – 2.71	No	1/25/2011
Uranium (ug/l) Erosion of natural deposits	0	30	4.0379	0 – 4.0379	No	1/25/2011

Unregulated Contaminants (UCMR3)*

Contaminant (unit of measure) Likely Source of Contamination	MCLG	MCL	Average Level Found	Range of Detections	Collection Date
Hexavalent Chromium (also known as Chromium-6) (ppb) Naturally-occurring elemental metal; used in making steel and other alloys; chromium-3 or -6 forms are used for chrome plating, dyes and pigments, leather tanning and wood preservation.	n/a	n/a	0.18	0.16 – 0.19	9/24/13
Chromium (ppb) See Hexavalent Chromium (Chromium-6).	n/a	n/a	0.23	0.22 – 0.24	9/24/13
Molybdenum (ppb) Naturally-occurring element found in ores and present in plants, animals and bacteria; commonly used form molybdenum trioxide used as a chemical reagent.	n/a	n/a	1.13	1.1 – 1.2	9/24/13
Strontium (ppb) Naturally-occurring element; historically, commercial use of strontium has been in the faceplate glass of cathode-ray tube televisions to block x-ray emissions.	n/a	n/a	120	120 – 120	9/24/13
Vanadium (ppb) Naturally-occurring elemental metal; used as vanadium pentoxide Which is a chemical intermediate and a catalyst.	n/a	n/a	0.23	0 – 0.35	9/24/13

*Note: Unregulated contaminant are those for which the USEPA has not established drinking water standards. The purpose of unregulated contaminant monitoring is to assist the EPA in determining the occurrence of unregulated contaminants in drinking water and whether future regulation is warranted. A maximum contaminant level (MCL) for these substances has not been established by either state or federal regulations, nor has mandatory health effects language.

CONSUMER EDUCATION

(Some material courtesy of the American Water Works Association and EPA)

- The Village of Burr Ridge pumped a total of 674,888,960 gallons into the water distribution system in 2013; a daily average of 1,844,003 gallons. The peak 24 hour period was 3,889,664 gallons on August 20, 2013.
- State of Illinois Plumbing Code, 77 Ill. Adm. Code Section 890.1140(d) specifically requires that a reduced pressure principle backflow preventer assembly (RPZ) be installed on all lawn sprinkler systems in the State of Illinois in order to protect the potable water supply. This is a retroactive requirement and no other type of device is acceptable.
- The typical single-family suburban household uses at least 30 percent of their water outdoors for irrigation. Some experts estimate that more than 50 percent of landscape water use goes to waste due to evaporation or runoff caused by overwatering. 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.
- Fix leaky toilets and faucets. Faucet washers 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.
- Este informe contiene informacion muy importante sobre la calidad de su agua potable. Por favor lea este informe o comuniquese con alguien que pueda traducir la informacion. (This report contains key information about the quality of their drinking water information. Please read this report or contact someone who can translate the information.)

VILLAGE OF BURR RIDGE
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