

Annual Drinking Water Quality Report

MILL CREEK WATER RECLAMATION DISTRICT

IL0890120

Annual Water Quality Report for the period of January 1 to December 31, 2018

This report is intended to provide you with important information about your drinking water and the efforts made by the water system to provide safe drinking water.

The source of drinking water used by MILL CREEK WATER RECLAMATION DISTRICT is Ground Water

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Este informe contiene información muy importante sobre el agua que usted bebe. Tradúzcalo ó hable con alguien que lo entienda bien.

Source of 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:

- 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.

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 EPA's Safe Drinking Water Hotline at (800) 426-4791.

In order to ensure that 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.

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

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. We 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 or at <http://www.epa.gov/safewater/lead>.

Source Water Information

| Source Water Name | Type of Water | Report Status | Location |
|-------------------|---------------|---------------|---------------------------------|
| WELL 1 (00951) | GW | _____ | SOUT OF TERNEY LN AND SULLEY SQ |
| WELL 2 (01148) | GW | _____ | _____ |
| WELL 3 (01149) | GW | _____ | _____ |

Source Water Assessment

We want our valued customers to be informed about their water quality. If you would like to learn more, please feel welcome to attend any of our regularly scheduled meetings. The source water assessment for our supply has been completed by the Illinois EPA. If you would like a copy of this information, please stop by Sheaffer & Roland, Inc. at 611 Stevens Street, Geneva IL or call our water operator at (630) 208-9898. To view a summary version of the completed Source Water Assessments, including: Importance of Source Water; Susceptibility to Contamination Determination; and documentation/recommendation of Source Water Protection Efforts, you may access the Illinois EPA website at <http://www.epa.state.il.us/cgi-bin/wp/swap-fact-sheets.pl>.

Source of Water: MILL CREEK WATER RECLAMATION DISTRICT To determine Mill Creek Water Reclamation District's susceptibility to groundwater contamination, information obtained during a Well Site Survey performed by the Illinois Rural Water Association on April 22, 1999 was reviewed. Based on this information, one potential source of contamination was identified within proximity of this water supply's wells. The Illinois EPA does not consider the source water susceptible to contamination. This determination is based on a number of criteria including: monitoring conducted at the wells; monitoring conducted at the entry point to the distribution system; and the available hydrogeologic data on the wells.

2018 Regulated Contaminants Detected

Lead and Copper

Definitions:
 Action Level Goal (ALG): The level of a contaminant in drinking water below which there is no known or expected risk to health. ALGs allow for a margin of safety.
 Action Level: The concentration of a contaminant which, if exceeded, triggers treatment or other requirements which a water system must follow.

| Lead and Copper | Date Sampled | MCLG | Action Level (AL) | 90th Percentile | # Sites Over AL | Units | Violation | Likely Source of Contamination |
|-----------------|--------------|------|-------------------|-----------------|-----------------|-------|-----------|---|
| Copper | 2018 | 1.3 | 1.3 | 0.122 | 0 | ppm | N | Erosion of natural deposits; Leaching from wood preservatives; Corrosion of household plumbing systems. |
| Lead | 2018 | 0 | 15 | 1.9 | 0 | ppb | N | Corrosion of household plumbing systems; Erosion of natural deposits. |

Water Quality Test Results

Definitions: The following tables contain scientific terms and measures, some of which may require explanation.

Avg: Regulatory compliance with some MCLs are based on running annual average of monthly samples.

Level 1 Assessment: A Level 1 assessment is a study of the water system to identify potential problems and determine (if possible) why total coliform bacteria have been found in our water system.

Level 2 Assessment: A Level 2 assessment is a very detailed study of the water system to identify potential problems and determine (if possible) why an E. coli MCL violation has occurred and/or why total coliform bacteria have been found in our water system on multiple occasions.

Maximum Contaminant Level or 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 or 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 or 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 or MRDLG: 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.

na: not applicable.

mrem: millirems per year (a measure of radiation absorbed by the body)

ppb: micrograms per liter or parts per billion - or one ounce in 7,350,000 gallons of water.

ppm: milligrams per liter or parts per million - or one ounce in 7,350 gallons of water.

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

Regulated Contaminants

| <u>Disinfectants and Disinfection By-Products</u> | <u>Collection Date</u> | <u>Highest Level Detected</u> | <u>Range of Levels Detected</u> | <u>MCLG</u> | <u>MCL</u> | <u>Units</u> | <u>Violation</u> | <u>Likely Source of Contamination</u> |
|---|------------------------|-------------------------------|---------------------------------|-----------------------|------------|--------------|------------------|---|
| Chlorine | 12/31/2018 | 1.1 | 0.8 - 1.6 | MRDLG = 4 | MRDL = 4 | ppm | N | Water additive used to control microbes. |
| Haloacetic Acids (HAA5) | 2018 | 3 | 2.67 - 2.67 | No goal for the total | 60 | ppb | N | By-product of drinking water disinfection. |
| Total Trihalomethanes (TTHM) | 2018 | 6 | 6.08 - 6.08 | No goal for the total | 80 | ppb | N | By-product of drinking water disinfection. |
| <u>Inorganic Contaminants</u> | <u>Collection Date</u> | <u>Highest Level Detected</u> | <u>Range of Levels Detected</u> | <u>MCLG</u> | <u>MCL</u> | <u>Units</u> | <u>Violation</u> | <u>Likely Source of Contamination</u> |
| Barium | 12/13/2017 | 0.047 | 0.047 - 0.047 | 2 | 2 | ppm | N | Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits. |
| Fluoride | 12/13/2017 | 1.05 | 1.05 - 1.05 | 4 | 4.0 | ppm | N | Erosion of natural deposits; Water additive which promotes strong teeth; Discharge from fertilizer and aluminum factories. |
| Iron | 12/13/2017 | 0.035 | 0.035 - 0.035 | | 1.0 | ppm | N | This contaminant is not currently regulated by the USEPA. However, the state regulates. Erosion of natural deposits. |
| Manganese | 12/13/2017 | 1.6 | 1.6 - 1.6 | 150 | 150 | ppb | N | This contaminant is not currently regulated by the USEPA. However, the state regulates. Erosion of natural deposits. |
| Sodium | 12/13/2017 | 130 | 130 - 130 | | | ppm | N | Erosion from naturally occurring deposits. Used in water softener regeneration. |
| Zinc | 12/13/2017 | 0.0079 | 0.0079 - 0.0079 | 5 | 5 | ppm | N | This contaminant is not currently regulated by the USEPA. However, the state regulates. Naturally occurring; discharge from metal |

| <u>Radioactive Contaminants</u> | <u>Collection Date</u> | <u>Highest Level Detected</u> | <u>Range of Levels Detected</u> | <u>MCLG</u> | <u>MCL</u> | <u>Units</u> | <u>Violation</u> | <u>Likely Source of Contamination</u> |
|---|------------------------|-------------------------------|---------------------------------|-------------|------------|--------------|------------------|---------------------------------------|
| Combined Radium 226/228 | 02/15/2017 | 2.6 | 2.6 - 2.6 | 0 | 5 | pCi/L | N | Erosion of natural deposits. |
| Gross alpha excluding radon and uranium | 02/15/2017 | 7.88 | 7.88 - 7.88 | 0 | 15 | pCi/L | N | Erosion of natural deposits. |

Violations Table

Lead and Copper Rule

The Lead and Copper Rule protects public health by minimizing lead and copper levels in drinking water, primarily by reducing water corrosivity. Lead and

| <u>Violation Type</u> | <u>Violation Begin</u> | <u>Violation End</u> | <u>Violation Explanation</u> |
|------------------------------------|------------------------|----------------------|---|
| FOLLOW-UP OR ROUTINE TAP M/R (LCR) | 10/01/2018 | 2018 | We failed to test our drinking water for the contaminant and period indicated. Because of this failure, we cannot be sure of the quality of our drinking water during the period indicated. |