

2023 Water Quality Report for Bessemer Township

WSSN 5600

This report covers the drinking water quality for Bessemer Township for the 2022 calendar year. This information is a snapshot of the quality of the water that we provided to you in 2022. Included are details about where your water comes from, what it contains, and how it compares to United States Environmental Protection Agency (USEPA) and state standards.

Your water comes from 2 groundwater wells, each over 410 feet deep. The State performed an assessment of our source water to determine the susceptibility or the relative potential of contamination. The susceptibility rating is on a seven-tiered scale from "very-low" to "very-high" based on geologic sensitivity, well construction, water chemistry and contamination sources. The susceptibility of our source is moderately high.

There are no significant sources of contamination in our water supply. City of Wakefield is making efforts to protect our sources by participating in an annual well head maintenance program administered by Kleiman Pump and Well Drilling.

If you would like to know more about this report, please contact: Mike Bastman, Operator, of Bessemer Township, (906) 285-0238.

Contaminants and their presence in water: 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 (800-426-4791).

Vulnerability of sub-populations: 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 systems 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/Center for Disease Control 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).

Sources of drinking water: The sources of drinking water (both tap water and bottled water) include rivers, lakes, streams, ponds, reservoirs, springs, and wells. Our water comes from 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 stormwater 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 and residential uses.

- **Action Level (AL):** The concentration of a contaminant which, if exceeded, triggers treatment or other requirements that a water system must follow.
- **Level 1 Assessment:** A study of the water supply to identify potential problems and determine (if possible) why total coliform bacteria have been found in our water system.
- **Level 2 Assessment:** 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.

| Per- and polyfluoroalkyl substances (PFAS) | | | | | | | | |
|------------------------------------------------------|------------------|---------------|-------------------------|------------------|--------------|----------------------------|------------------------------------------------------------------------------------------------------------------|--|
| Regulated Contaminant | MCL, TT, or MRDL | MCLG or MRDLG | Level Detected | Range | Year Sampled | Violation Yes/No | Typical Source of Contaminant | |
| Hexafluoropropylene oxide dimer acid (HFPO-DA) (ppt) | 370 | N/A | ND | N/A | 2022 | No | Discharge and waste from industrial facilities utilizing the Gen X chemical process | |
| Perfluorobutane sulfonic acid (PFBS) (ppt) | 420 | N/A | ND | N/A | 2022 | No | Discharge and waste from industrial facilities; Stain-resistant treatments | |
| Perfluorohexane sulfonic acid (PFHxS) (ppt) | 51 | N/A | ND | N/A | 2022 | No | Firefighting foam; Discharge and waste from industrial facilities | |
| Perfluorohexanoic acid (PFHxA) (ppt) | 400,000 | N/A | ND | N/A | 2022 | No | Firefighting foam; Discharge and waste from industrial facilities | |
| Perfluorononanoic acid (PFNA) (ppt) | 6 | N/A | ND | N/A | 2022 | No | Discharge and waste from industrial facilities; Breakdown of precursor compounds | |
| Perfluorooctane sulfonic acid (PFOS) (ppt) | 16 | N/A | ND | N/A | 2022 | No | Firefighting foam; Discharge from electroplating facilities; Discharge and waste from industrial facilities | |
| Perfluorooctanoic acid (PFOA) (ppt) | 8 | N/A | ND | N/A | 2022 | No | Discharge and waste from industrial facilities; Stain-resistant treatments | |
| Inorganic Contaminant Subject to ALs | AL | MCLG | Your Water ³ | Range of Results | Year Sampled | Number of Samples Above AL | Typical Source of Contaminant | |
| Lead (ppb) | 15ppb | 0 | 3ppb | 0 ppb–5 ppb | 2022 | 5 | Lead service lines, corrosion of household plumbing including fittings and fixtures; Erosion of natural deposits | |
| Copper (ppm) | 1.3ppm | 1.3 | 0.3ppm | 0.0ppm 0.3ppm | 2022 | 5 | Corrosion of household plumbing systems; Erosion of natural deposits | |

³ Ninety (90) percent of the samples collected were at or below the level reported for our water.

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