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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.

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 EPAs Safe Drinking Water Hotline at (800) 426-4791.

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.

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.

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.

**Source of Drinking Water**

Consumer Confidence Report

**NEWTON**

**IL0790100**

The source of drinking water used by

Annual Water Quality Report for the period of January 1 to December 31, 2017

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.

For more information regarding this report contact:

Name Tyler Weber

Phone 618-783-8451

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

**Annual Drinking Water Quality Report**

NEWTON is Ground Water

03/20/2018

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**Source Water Information**

Source Water Name

Report Status

Type of Water

Location

WELL 5 (00326)

 A

GW

NORTH OF NEWTON

WELL 6 (00657)

 A

GW

NORTH OF NEWTON

WELL 7 (01058)

 A

GW

NORTH OF NEWTON

WELL 8 (01868)

 A

GW

NORTH OF NEWTON

WELL 9 (01869)

 A

GW

NORTH OF NEWTON

03/20/2018

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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 on the first and third Tuesday of each month at 6PM. 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 City Hall or call our water operator at 618-783-8451. 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: NEWTON The Illinois EPA considers the source water of Newton's wells to be susceptible to IOC and SOC contamination, but does not consider the wells susceptible to VOC contamination. This determination was made primarily based on the identification of potential sources and routes of contamination, land-use activities around the wells, available hydrogeologic data, and monitoring results. Materials reviewed included the Well Site Survey Report, published in 1990, a Phase II Wellhead Protection Area (WHPA) Delineation, and additional field surveys. Other material reviewed includes the City of Newton’s Source Water Protection Plan, published in 2013, in cooperation with the Illinois Rural Water Association. During the surveys of the source water protection area, no potential sources, routes, or possible problem sites were identified within 2,000 feet of the 400 foot minimum setback zones, the 1,000 foot Maximum Setback zones, or the Phase II WHPAs. Part of the land within the Phase II WHPA is utilized for agricultural purposes which increases the susceptibility to groundwater contamination of SOCs from pesticides and herbicides and IOCs such as nitrate used for fertilizing. Sampling performed to assess for pathogenic contamination (e.g., virus, total coliform, e-coli) has also demonstrated that the source water is not susceptible to these types of contaminants.

The City of Newton has implemented a source water protection program which includes source water protection strategies, and contingency planning. This resulted in the community water supply receiving a special exemption permit from the IEPA which allows a reduction in Cyanide, SOC and VOC monitoring. This vulnerability waiver is conditional upon cyanide, volatile and/or synthetic organic monitoring results and required confirmation results.

**Source Water Assessment**

03/20/2018

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**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.

0

N

ppm

2017

1.3

1.3

**Lead and Copper**

Date Sampled

MCLG

Action Level (AL)

90th Percentile

# Sites Over AL

Units

Violation

Likely Source of Contamination

**Copper**

0.153

Erosion of natural deposits; Leaching from wood preservatives; Corrosion of household plumbing systems.

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**

**Regulated Contaminants Detected**

**2017**

03/20/2018

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**Water Quality Test Results**

03/20/2018

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Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits.

Erosion from naturally occurring deposits. Used in water softener regeneration.

Erosion of natural deposits; Water additive which promotes strong teeth; Discharge from fertilizer and aluminum factories.

Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits.

Erosion of natural deposits; Runoff from orchards; Runoff from glass and electronics production wastes.

**Regulated Contaminants**

**Disinfectants and Disinfection By-Products**

Collection Date

Highest Level Detected

Range of Levels Detected

MCLG

MCL

Units

Violation

Likely Source of Contamination

**Chlorine**

12/31/2017

1.6

1.5 - 1.6

MRDLG = 4

MRDL = 4

ppm

N

Water additive used to control microbes.

**Haloacetic Acids (HAA5)**

2017

10

9.8 - 9.8

No goal for the total

60

ppb

N

By-product of drinking water disinfection.

**Total Trihalomethanes (TTHM)**

2017

23

22.8 - 22.8

No goal for the total

80

ppb

N

By-product of drinking water disinfection.

**Inorganic Contaminants**

Collection Date

Highest Level Detected

Range of Levels Detected

MCLG

MCL

Units

Violation

Likely Source of Contamination

**Arsenic**

07/27/2015

0.627

0.627 - 0.627

0

10

ppb

N

**Barium**

07/27/2015

0.0471

0.0471 - 0.0471

2

2

ppm

N

**Fluoride**

07/27/2015

1.08

1.08 - 1.08

4

4.0

ppm

N

**Nitrate [measured as Nitrogen]**

2017

2

2 - 2

10

10

ppm

N

**Sodium**

07/27/2015

15.9

15.9 - 15.9

ppm

N

03/20/2018

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