

TOWN OF LIBERTY
WATER & SEWER DEPARTMENT
120 NORTH MAIN STREET
LIBERTY, NY 12754

ANNUAL DRINKING WATER QUALITY REPORT

Cold spring Water District Fed ID: NY5230111

We are once again proud to present to you our Annual Water Quality Report. We have dedicated ourselves to producing drinking water that meets all state and federal drinking water standards. We continually strive to adopt new and better methods for delivering the best quality drinking water to you. As new challenges to drinking water safety emerge, we remain vigilant in meeting the challenges of source water protection, water conservation and community education while continuing to serve the needs of all our water users.

To comply with State regulations, the Cold Spring Water District is issuing our annual report describing the quality of your drinking water. The purpose of this report is to raise your understanding of drinking water and awareness of the need to protect our drinking water sources. Last year, your tap water met all State drinking water health standards. We are proud to report that our system did not violate a maximum contaminant level or any other water quality standard. This report provides an overview of last year's water quality. Included are details about where your water comes from, what it contains, and how it compares to State standards.

If you have any questions about this report, or concerning your drinking water, please contact Mr. Stacey Yaun, working supervisor at (845)-292-5620 or the Health Department at 845-794-2045. We want you to be informed about your drinking water.

In general, 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 activities. Contaminants that may be present in source water include: microbial contaminants; inorganic contaminants; pesticides and herbicides; organic chemical contaminants; and radioactive contaminants. In order to ensure that tap water is safe to drink, the State and the EPA prescribe regulations which limit the amount of certain contaminants in water provided by public water systems. The State Health Departments and the FDA's regulations establish limits for contaminants in bottled water which must provide the same protection for public health.

Your water district serves approximately 50 customers through 19 service connections. We purchase the water from the Village of Liberty. Their sources are the Lily Pond Filtration Plant and the Elm St. well.

The Town of Liberty's monitoring program meets all EPA and State Health Department regulations. We test the water for bacteriological quality monthly. In 2020 there were no bacteriological or chemical Maximum Contaminant Level violations. Some of the constituents tested for were detected, but at levels well below the allowable MCL'S. It is important to remember all 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 the water poses a health risk. The EPA has determined that your water is safe at these levels. A copy of the complete list of chemicals tested for and the results of these tests can be obtained by calling our office. Additional information about contaminants and potential health risks can be obtained by calling the EPA's Safe Drinking Water Hotline at 800-426-4791 or the Sullivan District Office of the Health Department at 845-794-2045.

The table of detected contaminants shows the results of testing done by the Village of Liberty. We duplicate the TTHM& THAA testing. Our results for TTHM: Average 59, Minimum 92 Maximum 37. For THAA: Average 44, Maximum 60, Minimum 33.

Table of Detected Contaminants

| Contaminant | Date of Sampling | Violation YIN | Level Detected | Unit Measurement | MCLG | MCL | Likely Source of Contamination |
|--------------------------------------|--|---------------|--|------------------|------|---|---|
| (1) Total Coliform Bacteria | 2017 | | | Per too | o | presence of coliform bacteria in 5% of monthl sam les | Naturally present in the environment. |
| (2) Fecal colifom and Ecoli | 2017 | | | Per 100 | o | Any positive | Human and animal fecal waste |
| (3) Turbidity | 2019 Done daily | | Highest Run Ave 1-13 372 Lowest Run Ave 10.25 Av .025 | NTU | N/A | .300 | Soil runoff |
| (4) MTBE (ELM ST. WELL) | 2018 | | | Ugn | | .01 | Octane boosting additive of asoline |
| (7) (as Nitrogen) | 7/10/19 | | Elm ST 0.87 | Mg/L | 10 | 10 | Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits |
| (8) Niüite | 7/10/19 | | PLANT .05 | Mg/L | | 1 | |
| (7) Nit-ate | 7/10/19 | | <0.025 | Mg/L | 10 | 10 | |
| 8 Nitrite | 7/10/19 | | | | | 1 | |
| (9) ITI--nvf (total trihalomehtanes) | 3/14/19 6/10A9 9/12/19 12/5/19 | (11) Y | Highest Running Annual Average 44.1 Max level 79 Min level 22.4 | I-JUL | | 80 | By product of drinking water chlorination needed to kill harmful organisms. TTY-Ms are formed when source water contains large amounts of or anic matter. |
| (8) THAA (total haloacetic acids) | 3/14/19 6/10/19 9/12/19 12/5/19 | (11) Y | Highest Running Annual Average: 40 Max level 55 Min level 27.5 | I-JUL | | 60 | By product of drinking water disinfect ion needed to Icill harmful organisms. |
| BARIUM | 7/12/19 7/12/19 | N | Elm St 0.21 Lily Pond .026 | MG/L | | | Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural de its. |
| NICKEL | 7/12/19 7/12/19 | | Lily Pond <0.0005 Elm ST <0.0005 | MG/L | | N/A | Erosion of natural deposits. |
| Arsenic | 7/12/19 7/1719 | N | Lily Pond <0.0010 Elm ST <0.0010 | Mg/L | | 0.010 | Naturally Occurring |
| (10) SODIUM | 10/05/17 | N | Elm ST Well 48.7 Lil Pond 8.05 | MG/L | | See Notes | Naturally occurring; Road salt; Water softeners; Animal waste. |
| LEAD | 6/18/19 | | Range: 0 Action level exceeded at 0 sites | MG/L | | 0.015 | Cqrrsion of household plümbing |

| | | | | | | | |
|------------------------------------|--|--------|---|------------|--|-----------------------|-----------------------|
| P.F.O.S | 12/12/17 | | 2.61 | | | 70 PARTS PER TRILLION | MAN MADE CHEMICALS |
| P.F.O.A | 12/12/17 | | N.D. | | | 70 PARTPER TRILLION | MAN MADE CEEMICALS |
| CHROMIUM | WELL 10/3/13-10/6/16 PLANT 7/23/1610/6/16 | N N | WELL 0.001 PLANT 0.001 | | | 0.1 0.1 | Naturally Occurring |
| FLUORIDE | WELL 10/3/13-10/6/16 PLANT 4/19/18 10/6/16 | N N | WELL 0.10 PLANT | | | 2 2 | |
| SELENIUM | WELL 7/12/19 PLANT 7/12/19 | N N | WELL <0.002 PLANT <0.002 | | | 0.05 0.05 | Naturally Occurring |
| GROSS ALPHA | 8/25/2016 | N | WELL 0+/-1.13 | pCi | | 15 | Naturally Occurring |
| TOTAL URANIUM | 3/9/16 | N | Well 0.117+/-0.003 | ugL | | 30 | Naturally Occurring |
| cow, fBINED RADIUM 226&228 | 3/19/16 | N | wen 0.637+1-0.374 | pCi | | 5 | Naturally Occurring |
| GROSS BETA ALPHA PARTICLE ACTIVITY | 3n9/16 | N | 1.11+/-0.859 | millirem s | | 4 | Naturally Occurring |
| (5)(12) COPPER | 6/18/19 | | = 0.425 Range: 0.0177-1.5 Action level exceeded at site | Mg/L | | 1.3 | Corrosion of plumbing |

SANIPLING VIOLATION

We are required to monitor your drinking water for specific contaminants on a regular basis. Results of regular monitoring are an indicator of whether your drinking water meets health. Standards. During 2019 we had no bacteriological sample that was in violation in Village of Liberty.

(1) Total Coliform. 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.

(2) Fecal coliformÆ.Coli. Fecal colifonns and E. coli are bacteria whose presence indicates that the water may be contaminated with human or animal wastes. Microbes in these wastes can cause short-term effects, such as diarrhea, cramps, nausea, headaches, or other symptoms. They may pose a special health risk for infants, young children, and people with severely compromised immune systems. (3) Turbidity. constant monitoring annual avg. Turbidity has no health effects. However, turbidity can interfere with disinfections and provide a medium for microbial growth. Turbidity may indicate the presence of disease-causing organisms. These organisms include bacteria, viruses, and parasites that can cause symptoms such as nausea, cramps, diarrhea, and associated headaches.

(4) Even though we currently do not exceed MTBE levels, the Village still continually monitors for MTBE and any of its associated compounds. At present we show no presence of MTBE.

- (5) Copper. Copper is an essential nutrient, but some people who drink water containing copper in excess of the action level over a relatively short amount of time could experience gastrointestinal distress. Some people who drink water containing copper in excess of the action level over many years could suffer liver or kidney damage. People with Wilson's disease should consult their personal doctor.
- (6) Lead. Infants and children who drink water containing lead in excess of the action level could experience delays in their physical or mental development. Children could show slight deficits in attention span and learning abilities. Adults who drink this water over many years could develop kidney problems or high blood pressure.
- (7) Nitrate. Infants below the age of six months who drink water containing nitrate in excess of the MCL could become seriously ill and, if unfreated, may die. Symptoms include shortness of breath and blue-baby syndrome.
- (8) HAA's [Haloacetic Acids] Some people who drink water containing haloacetic acids in excess of the MCL over many years may have an increased risk of getting cancer.
- (9) THMs [Total Trihalomethanes]. Some people who drink water containing trihalomethanes in excess of the MCL over many years may experience problems with their liver, kidneys, or central nervous systems, and may have an increased risk of getting cancer. (10) SODIUM Water containing more than 20mg/l of sodium should not be used for drinking by people on severely restricted sodium diets.
- (11) Running annual average above exceedance of the MCL for two quarters
- (12) The level presented represents the 90th percentile of the 20 sites tested. A percentile is a value on a scale of 100 that indicates the percent of a distribution that is equal to or below it. The 90th percentile is equal to or greater than 90% of the copper or lead values detected in the water system.

What Does This Information Mean?

Inadequately treated water may contain disease-causing organisms. These organisms include bacteria, viruses, and parasites, which can cause symptoms such as nausea, cramps, diarrhea, and associated headaches.

We constantly monitor the water supply for various constituents. We have NOT detected cryptosporidium in the water from the Lily Pond Water Filtration Plant. We have NOT detected this constituent in any of our samples tested. We believe it is important for you to know that cryptosporidium may cause serious illness in 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. These people should seek advice from their health care providers.

All sources of drinking water are subject to potential contamination by substances that are naturally occurring or manmade. These substances can be microbes, inorganic or organic chemicals and radioactive substances. All 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 the water poses a health risk. More information about contaminants and potential health effects can be obtained by calling the Environmental Protection Agency's Safe Drinking Water Hotline at 1-800-426-4791.

MCL's are set at very stringent levels. To understand the possible health effects described for many regulated constituents, a person would have to drink 2 liters of water every day at the MCL level for a lifetime to have a one-in-a-million chance of having the described health effect.

Total Coliform: The Total Coliform Rule requires water systems to meet a stricter limit for coliform bacteria. Coliform bacteria are usually harmless, but their presence in water can be an indication of disease-causing bacteria. When coliform bacteria are found, special follow-up tests are done to determine if harmful bacteria are present in the water supply. If this limit is exceeded, the water supplier must notify the public by newspaper, television or radio. To comply with the stricter regulation, we have increased the average amount of chlorine in the distribution system.

Nitrates: As a precaution, we always notify physicians and health care providers in this area if there is ever a higher than normal level of nitrates in the water supply.

Lead: Lead in drinking water is rarely the sole cause of lead poisoning, but it can add to a person's total lead exposure. All potential sources of lead in the household should be identified and removed, replaced or reduced.

Our non-English speaking customers should contact the Village office for assistance in reading this report. This report contains important information about your drinking water. Translate it, or speak with someone who understands it.

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|---|---|
| <p>Spanish Este informe contiene información muy importante sobre su agua beber. Tradúzcatlo o hable con alguien que lo entienda bien.</p> | <p>French Ce rapport contient des informations importantes sur votre eau potable. Traduisez-le ou parlez en avec quelqu'un qui le comprend bien.</p> |
| <p>Korean 이 보고서의 내용은 매우 중요하며, 특히 식수 관련 정보를 제공하기 위해 작성되었습니다. 다른 언어로 된 이 보고서를 읽기 위해 도움을 받으시거나 번역해 주십시오.</p> | <p>Chinese 這份報告含有非常重要的關於您喝的水的資料，請找懂得這份報告的人翻譯或解釋給您。</p> |

Some people may be more vulnerable to contaminants in drinking water than the general population. Immunocompromised persons such as persons with cancer, undergoing chemotherapy, persons who have undergone organ