

2021 Annual Drinking Water Quality Report
Lititz Borough Water System PWSID# 7360126
Operated by



Este informe contiene información muy importante sobre su agua de beber. Tradúzcalo ó hable con alguien que lo entienda bien. (This report contains very important information about your drinking water. Translate it, or speak with someone who understands it.)

WATER SYSTEM INFORMATION: This report shows our water quality and what it means. If you have any questions about this report or concerning your water utility, please contact us at (717) 626-2172. We want you to be informed about your water utility. If you want to learn more, please attend any of our regularly scheduled Borough Council meetings on the last Tuesday of each month. During 2021, Borough Council meetings were held with a “Zoom” option, due to COVID-19 protocols. The meetings are held at 7:00 p.m. at the Lititz Borough Office, 7 South Broad Street, Lititz PA 17543.

SOURCES OF WATER: The water sources for Lititz Borough’s treatment plant are seven groundwater wells located within the Borough and Warwick Township that have been determined to be under the direct influence of surface water. Lititz Borough and the Warwick Township Municipal Authority (WTMA) continues their efforts to protect your drinking water through its Wellhead Protection Program. The program was approved by the PADEP in 2002.

A Source Water Assessment of the Lititz Borough wells was completed in July 2004 by the PA Department of Environmental Protection (PADEP). The Assessment has found that the wells are potentially most susceptible to industrial, residential and agricultural activities, accidental spills along roads and railways, auto repair shop activities, dairy/egg laying operations and sinkholes. Overall, the Lititz Run Watershed has a medium to high risk of significant contamination. A copy of the Executive Summary of the assessment report is available by writing to Sue Barry, Lititz Borough Manager, 7 South Broad Street, Lititz, PA 17543.

The Wellhead Protection Committee consists of representatives of municipal government and agencies, participation from local businesses and interested citizens is encouraged. The group meets annually to discuss the status of existing programs and to suggest additional ways in which we can protect our precious resource. Due to the success of its “Ag-Management” Program, representatives of the Wellhead Protection Committee have been invited to share the results of this innovative partnership with others through forums such as the Pennsylvania Municipal Authorities Association, PADEP, and SRBC Seminars. The Ag-Management Program owes a large portion of its success to the outstanding cooperation provided by our farming partners.

In December 2012, the USEPA recognized Lititz Borough and Warwick Township with an award for their Source Water Protection efforts. In December 2018, WTMA and Lititz Borough updated their Wellhead Protection Plan to include an existing Lititz Borough well and a new well in the WTMA – Rothsville system. The updated plan was submitted to the PADEP and approved in February 2019.

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

MONITORING YOUR DRINKING WATER: We routinely monitor for contaminants in your drinking water according to federal and state laws. The following table shows the results of our monitoring for the period of January 1 to December 31, 2021. The State allows us to monitor for some contaminants less than once per year because the concentrations of these contaminants do not change frequently. Some data could be from prior years in accordance with the Safe Drinking Water Act.

DEFINITIONS:

Action Level (AL) - The concentration of a contaminant which, if exceeded, triggers treatment or other requirements which a water system must follow.

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.

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 Residual Disinfectant Level (MRDL) - The highest level of a disinfectant that is 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 (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.

Minimum Residual Disinfectant Level (MinRDL) - The minimum level of residual disinfectant required at the entry point to the distribution system.

Nephelometric Turbidity Unit (NTU) - nephelometric turbidity unit is a measure of the clarity of water. Turbidity in excess of 5 NTU is just noticeable to the average person.

ppb = parts per billion, or micrograms per liter (µg/L)

ppm = parts per million, or milligrams per liter (mg/L)

Treatment Technique (TT) - A required process intended to reduce the level of a contaminant in drinking water.

DETECTED SAMPLE RESULTS:

| Chemical Contaminants | | | | | | | | |
|-----------------------|------------|------|----------------|---------------------|-------|-------------|---------------|--|
| Contaminant | MCL in CCR | MCLG | Level Detected | Range of Detections | Units | Sample date | Violation Y/N | Sources of Contamination |
| NITRATE | 10 | 10 | 6.63 | 5.61 - 6.63 | ppm | 2021 | N | Runoff from fertilizer use; leaching from septic tanks, sewage |
| HALOACETIC ACIDS | 60 | n/a | 2.1 | 0 – 4.2 | ppb | 2021 | N | By-product of drinking water chlorination |
| TRIHALOMETHANES | 80 | n/a | 8.4 | 5.8 – 11.1 | ppb | 2021 | N | By-product of drinking water chlorination |
| ARSENIC | 10 | n/a | 2 | 0-5 | ppb | 2021 | N | Erosion of natural deposits; runoff from glass and electronics production wastes |
| FLUORIDE | 2 | n/a | 0.7 | 0.6-0.75 | ppm | 2021 | N | Water additive which promotes strong teeth |

| Entry Point Disinfectant Residual | | | | | | | |
|-----------------------------------|---------|-----------------------|---------------------|-------|-------------|---------------|-------------------------------------|
| Contaminant | Min RDL | Lowest Level Detected | Range of Detections | Units | Sample Date | Violation Y/N | Sources of Contamination |
| CHLORINE | 0.2 | 1.15 | 1.15-1.37 | ppm | 9/7/2021 | N | Water additive to control microbes. |

| Distribution Disinfectant Residual | | | | | | | |
|------------------------------------|------|---------------------------------|------------------------|--------------------------|-------|---------------|-------------------------------------|
| Contaminant | MRDL | Month of Highest Average Result | Highest Average Result | Range of Average Results | Units | Violation Y/N | Sources of Contamination |
| CHLORINE | 4.0 | May 2021 | 1.1 | 0.9 – 1.1 | ppm | N | Water additive to control microbes. |

| 2019 Lead and Copper | | | | | | | |
|----------------------|-------------------|------|-----------------------------------|-------|------------------------------------|---------------|---------------------------------|
| Contaminant | Action Level (AL) | MCLG | 90 th Percentile Value | Units | # of Sites Above AL of Total Sites | Violation Y/N | Likely Source of Contamination |
| COPPER | 1.3 | 1.3 | 0.5 | ppm | 0 of 23 | N | Corrosion of household plumbing |
| LEAD | 15 | 0 | 2 | ppb | 0 of 23 | N | Corrosion of household plumbing |

| Turbidity | | | | | | | |
|-------------|-------|---|------|----------------|------------------|---------------|--------------------------|
| Contaminant | Units | MCL | MCLG | Level Detected | Sample Date | Violation Y/N | Sources of Contamination |
| TURBIDITY | NTU | TT = 1 NTU for a single measurement | 0 | 0.125 | 10-30-2021 | N | Soil runoff |
| | | TT= at least 95% of monthly samples < 0.3 NTU | | 100% | January-December | N | |

NOTICE OF VIOLATIONS:

No violations were report for year 2021.

EDUCATIONAL INFORMATION: 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 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 run-off, 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 run-off 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 run-off and septic systems.
- Radioactive contaminants, which can be naturally occurring or be the result of oil and gas production and mining activities.

In order to assure that tap water is safe to drink, EPA and DEP prescribes regulations which limit the amount of certain contaminants in water provided by public water systems. FDA and DEP 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 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* (800-426-4791).

INFORMATION ABOUT NITRATES: Nitrate in drinking water at levels above 10 ppm is a health risk for infants of less than six months of age. High nitrate levels in drinking water can cause blue baby syndrome. Nitrate levels may rise quickly for short periods of time because of rainfall or agricultural activity. If you are caring for an infant, you should ask for advice from your health care provider.

INFORMATION ABOUT LEAD: 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. Lititz Borough is responsible for providing high quality drinking water, but 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 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>