

# Consumer Confidence Report

## Annual Drinking Water Quality Report

LEWISTOWN

IL0570600

Annual Water Quality Report for the period of January 1 to December 31, 2021

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 LEWISTOWN is Ground Water

For more information regarding this report contact:

Name Joseph Carruthers

Phone 309-224-7100

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   |
|--|
| <p>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.</p> <p>Contaminants that may be present in source water include:</p> <ul style="list-style-type: none"><li>- Microbial contaminants, such as viruses and bacteria, which may come from sewage treatment plants, septic systems, agricultural livestock operations, and wildlife.</li><li>- 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.</li><li>- Pesticides and herbicides, which may come from a variety of sources such as agriculture, urban storm water runoff, and residential uses.</li><li>- 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.</li><li>- Radioactive contaminants, which can be naturally-occurring or be the result of oil and gas production and mining activities.</li></ul> |

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 07 (58012)   | GW            | A             | 230 FT N W OF COLLECTING TANK |
| WELL 08 (58013)   | GW            | A             | 325 FT N.W.OF COLLECTING TANK |
| WELL 10 (58015)   | GW            | A             | 120 FT NW OF COLLECTING TANK  |
| WELL 11 (58016)   | GW            | A             | 100 FT WSW OF COLLECTING TANK |
| WELL 14 (00377)   | GW            | A             | 114 FT SE OF WELL 8           |
| WELL 15 (02092)   | GW            | A             |                               |
| WELL 16 (02146)   | GW            | A             |                               |

## 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 City Hall or call our water operator at 309-224-7100. 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: LEWISTOWN To determine Lewistown's susceptibility to groundwater contamination, the following document was reviewed: a Well Site Survey, published in 1989 by the Illinois EPA. Based on the information obtained in this document, there are no potential sources of groundwater contamination that could pose a hazard to groundwater utilized by Lewistown's community water supply. However, information provided by the Leaking Underground Storage Tank and Remedial Project Management Sections of the Illinois EPA indicated sites with on-going remediation that might be of concern. Based upon this information, the Illinois EPA has determined that the Lewistown Community Water Supply's source water is susceptible to contamination. As such, the Illinois EPA has provided 5-year recharge area calculations for the wells. The land use within the recharge areas of the wells was analyzed as part of this susceptibility determination. This land use includes woodlands and agricultural properties.

**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** MCLG Action Level 90th Percentile # Sites Over Units Violation Likely Source of Contamination

| Contaminant | Date Sampled | MCLG | Action Level (AL) | 90th Percentile | # Sites Over | Units | Violation | Likely Source of Contamination  |
|-------------|--------------|------|-------------------|-----------------|--------------|-------|-----------|---|
| Copper      | 08/30/2019   | 1.3  | 1.3               | 0.96            | 1            | ppm   | N         | Erosion of natural deposits; Leaching from wood preservatives; Corrosion of household plumbing systems. |
| Lead        | 08/30/2019   | 0    | 15                | 2.4             | 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.

## Water Quality Test Results

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**

| Disinfectants and Disinfection By-Products | Collection Date | Highest Level Detected | Range of Levels Detected | MCLG                  | MCL      | Units | Violation | Likely Source of Contamination   |
|--|-----------------|------------------------|--------------------------|-----------------------|----------|-------|-----------|--|
| Chlorine                                   | 12/31/2021      | 1.2                    | 1 - 1.5                  | MRDLG = 4             | MRDL = 4 | ppm   | N         | Water additive used to control microbes.   |
| Haloacetic Acids (HAA5)                    | 2021            | 6                      | 5.56 - 5.56              | No goal for the total | 60       | ppb   | N         | By-product of drinking water disinfection.   |
| Total Trihalomethanes (TTHM)               | 2021            | 19                     | 19.04 - 19.04            | 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   |
| Barium                                     | 2021            | 0.076                  | 0.076 - 0.076            | 2                     | 2        | ppm   | N         | Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits.                                |
| Fluoride                                   | 2021            | 0.657                  | 0.657 - 0.657            | 4                     | 4.0      | ppm   | N         | Erosion of natural deposits; Water additive which promotes strong teeth; Discharge from fertilizer and aluminum factories. |
| Iron                                       | 2021            | 0.18                   | 0.18 - 0.18              |                       | 1.0      | ppm   | N         | This contaminant is not currently regulated by the USEPA. However, the state regulates. Erosion of natural deposits.       |
| Manganese                                  | 2021            | 279                    | 220 - 390                | 150                   | 150      | ppb   | Y         | This contaminant is not currently regulated by the USEPA. However, the state regulates. Erosion of natural deposits.       |
| Nitrate [measured as Nitrogen]             | 2021            | 2                      | 1.6 - 1.6                | 10                    | 10       | ppm   | N         | Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits.                               |
| Selenium                                   | 2021            | 4                      | 4 - 4                    | 50                    | 50       | ppb   | N         | Discharge from petroleum and metal refineries; Erosion of natural deposits; Discharge from mines.                          |

|                                 |                 |                        |                          |      |     |       |           |   |
|---------------------------------|-----------------|------------------------|--------------------------|------|-----|-------|-----------|---|
| <b>Sodium</b>                   | 2021            | 14                     | 14 - 14                  |      |     | ppm   | N         | Erosion from naturally occurring deposits. Used in water softener regeneration.   |
| <b>Zinc</b>                     | 2021            | 0.055                  | 0.055 - 0.055            | 5    | 5   | ppm   | N         | This contaminant is not currently regulated by the USEPA. However, the state regulates. Naturally occurring; discharge from metal |
| <b>Radioactive Contaminants</b> | Collection Date | Highest Level Detected | Range of Levels Detected | MCLG | MCL | Units | Violation | Likely Source of Contamination  |
| <b>Combined Radium 226/228</b>  | 09/15/2020      | 0.807                  | 0.807 - 0.807            | 0    | 5   | pCi/L | N         | Erosion of natural deposits.  |

**Violation Summary Table**



The following table(s) lists all violations that occurred during 2021. We included a brief summary of the actions we took following notification of the violation.

| Contaminant or Program                      | Violation Type  | Violation Duration<br>Start Date – End date | Violation Explanation  |
|---|---|---|--|
| MANGANESE<br>Health Effects (if applicable) | MCL   | 7/1/2021 - 09/30/22                         | •Children and adults who drink water with high levels of manganese for a long time may have problems with memory, attention, and motor skills. Infants (babies under one year old) may develop learning and behavior problems if they drink water with too much manganese in it. |
| Actions we took:                            | Evaluated and individually tested all wells separately. |   |  |

| Contaminant or Program                      | Violation Type   | Violation Duration<br>Start Date – End date | Violation Explanation  |
|---|--|---|--|
| MANGANESE<br>Health Effects (if applicable) | MCL  | 10/1/22 - 12-31/22                          | •Children and adults who drink water with high levels of manganese for a long time may have problems with memory, attention, and motor skills. Infants (babies under one year old) may develop learning and behavior problems if they drink water with too much manganese in it. |
| Actions we took:                            | Modified and adjusted well sequencing and pumping hours. |   |  |

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