| in ouer to ensure triat tap water is sare to ornik, Er-A prescribes<br>regulations which limit the amount of certain contaminants in<br>water provided by public water systems. FDA regulations<br>establish limits for contaminants in bottled water which must<br>provide the same protection for public health.<br><b>Sources of Drinking Water:</b><br>The sources of drinking water (both tap water and bottled water)<br>include rivers, lakes, streams, ponds, reservoirs, springs, and<br>groundwater wells. As water travels over the surface of the land<br>or through the ground, it dissolves naturally occurring minerals<br>and, in some cases, radioactive material, and can pick up  | contraminants and potential health effects can be obtained by<br>calling the EPA's Safe Drinking Water Hotline (800-426-4791).<br>Source Water Assessment Availability:<br>The Nebraska Department of Environment and Energy (NDEE)<br>has completed the Source Water Assessment. Included in the<br>assessment are a Wellhead Protection Area map, potential<br>contaminant source inventory, and source water protection<br>information. To view the Source Water Assessment or for more<br>information please contact the person named above on this<br>report or the NDEE at 402-471-3376 or go to http://dee.ne.gov.  | For more information regarding this report, or to request a hard copy, contact:<br>MIKE ADAIR<br>402-506-5618<br>If you would like to observe the decision-making processes that<br>affect drinking water quality, please attend the regularly<br>scheduled meeting of the Village Board/City Council. If you<br>would like to participate in the process, please contact the<br>Village/City Clerk to arrange to be placed on the agenda of the<br>meeting of the Village Board/City Council.<br>Drinking water, including bottled water, may reasonably be<br>expected to contain at least small amounts of some contami-<br>nants. The presence of contaminants does not necessarily<br>indicate that water poses a health risk. More information about   | City Of Weeping Water<br>Annual Water Quality Report<br>For January 1 to December 31, 2022<br>This report is intended to provide you with important information<br>about your drinking water and the efforts made by the City Of<br>Weeping Water water system to provide safe drinking water.<br>Para Clientes Que Hablan Español: Este informe contiene<br>información may importante sobre el agua que used bebe.<br>Tradúzcalo ó hable con alguien que lo entienda bien.   |   |
|--|--|--|--|---|
| <ul> <li>Water Division (402-471-1009).</li> <li>The City Of Weeping Water is required to test for the following contaminants: Coliform Bacteria, Antimony, Arsenic, Asbestos, Barium, Beryllium, Cadmium, Chromium, Copper, Cyanide, Fluoride, Lead, Mercury, Nickel, Nitrate, Nitrite, Selenium, Sodium, Thallium, Alachin, Atrazine, Benzo(a)pyrene, Carbofuran, Chlordane, Dalapon, Di(2-ethylhexy)adipate, Dibromochloropropane, Dinoseb, Di(2-ethylhexy))adipate, Dibromochloropropane, Environbe, Di(2-ethylhexy))adipate, Libronochloropropane, Dinoseb, Di(2-ethylhexy))adipate, Heptachlor, Heptachlor, Education, Ethylene dibromide, Glyphosate, Heptachlor, Heptachlor, Portadine, Methoxychlor, Oxamyl (Vydate), Pentachloropylepentadiene, Lindane, Methoxychlor, Oxamyl (Vydate), Pentachlorophenol, Picloram, Polychlorinated biphenyls, Simazine,</li> </ul> | All Community water systems are 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 your water, you may wish to have you 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 (800-426-4791), at http://www.epa.gou/safewater/lead.or at the NDEE Drinking hour tested.   | <ul> <li>Drinking Water Health Notes:</li> <li>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 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 <i>Cryptosporidium</i> and other microbial contaminants are available from the Safe Drinking Water Hotline (800-426-4791).</li> <li>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</li> </ul> | human activity.<br>The source of water used by City Of Weeping Water is ground<br>water.<br><b>Contaminants that may be present in source water include:</b><br>* Microbial contaminants, such as viruses and bacteria, which<br>may come from sewage treatment plants, septic systems,<br>agricultural livestock operations and wildlife.<br>* Inorganic contaminants, such as salts and metals, which can<br>be naturally occurring or result from urban storm water runoff,<br>industrial, or domestic wastewater discharges, oil and gas<br>production, mining, or farming.<br>* Pesticides and herbicides, which may come from a variety of<br>sources such as agriculture, urban storm water runoff, and<br>residential uses.<br>* Organic chemical contaminants, including synthetic and<br>volatile organic chemicals, which are by-products of industrial<br>processes and petroleum production, and can also come from<br>gas stations, urban storm water runoff, and septic systems.<br>* Radioactive contaminants, which can be naturally occurring or<br>be the result of oil and gas production and minima activities  | substances resulting from the presence of animals or from             |
|  | <ul> <li>ug/L (micrograms per liter) – Equivalent to ppb.</li> <li>pCi/L (Picocuries per liter) – Radioactivity concentration unit.</li> <li>RAA (Running Annual Average) – An ongoing annual average calculation of data from the most recent four quarters.</li> <li>LRAA (Locational Running Annual Average) – An ongoing annual average calculation of data from the most recent four quarters.</li> <li>Square accuration of data from the most recent four quarters at each sampling location.</li> <li>90<sup>th</sup> Percentile – Representative group. If the 90<sup>th</sup> percentile is greater than the action level, it will trigger a treatment or other requirements that a water system must follow.</li> <li>TT (Treatment Technique) – A required process intended to reduce the level of a contaminant in drinking water.</li> </ul> | <ul> <li>MCL (waximum Contaminant Level) - I ne nignest level of a contaminant is allowed in drinking water. MCLs are set as close to the MCLGs as feasible using the best available treatment technology.</li> <li>MCLG (Waximum Contaminant Level Goal) - The level of a contaminant in drinking water below which there is no known or expected risk to health. MCLS allow for a margin of safety.</li> <li>AL (Action Level) - The concentration of a contaminant which, if exceeded triggers treatment or other requirements which a water system must follow.</li> <li>MRDL (Maximum Residual Disinfectant Level) - The highest level of a disinfectant allowed in drinking water.</li> <li>N/A - Not applicable.</li> <li>Units in the Table:</li> <li>ppm (parts per million) - One ppm corresponds to 1 gallon of concentrate in 1 million gallons of water.</li> </ul>                             | <ul> <li>benzene, Para-Dichlorobenzene, 12-Dichlorethane, 1,1-Dichloroethylene, Cis-1,2-Dichloroethylene, Trans-1,2-Dichloroethylene, Dichloroethylene, 1,2-Dichloropethane, 1,2-Dichloroethylene, Trans-1,2-Dichloroethylene, 1,2-Dichloroethylene, 1,2-Dichloroethylene, 1,2-Dichloroethylene, 1,2-Dichloroethylene, 1,2-Dichloroethylene, 1,2-Dichloroethylene, 1,2-Dichloroethylene, 1,2-Dichloroethylene, Trichloroethylene, Toluene, Xylenes (total), Gross Alpha (minus Uranium &amp; Radium 226), Radium 226 plus Radium 228. Sulfate, Chlorobenzene, n-Dichlorobenzene, 1,1-Dichloropropane, 1,2-Dichloropropane, 1,1-Dichloropropane, 1,1-Dichloropro</li></ul> | Toxaphene, Dioxin, Silvex, Benzene, Carbon Tetrachloride, o-Dichloro- |

| City Of Weeping Water  |                                      |   |                        | TES                         | TEST RESULTS        | .TS                |  | Date Printed: 3/8/2023  | : 3/8/2023  | NE3102506              |
|--|--------------------------------------|---|------------------------|-----------------------------|---------------------|--------------------|--|---|---|------------------------|
| Microbiological  | Highest No. of I                     | <b>Highest No. of Positive Samples</b>  |                        | MCL                         |                     |                    | MCLG                                       | Likely Source   | Likely Source of Contamination  | Violations Present     |
| COLIFORM (TCR)   | In the month of positive             | In the month of May, 5 sample(s) were<br>positive   | were                   | Treatment Technique Trigger | nnique Trigge       | ц.                 | 0  | Naturally prese   | Naturally present in the environment  | Yes                    |
| Lead and Copper  | Monitoring<br>Period                 | 90 <sup>th</sup> Percentile   | Range                  | Unit                        | AL                  | Sites Over<br>AL   |  | Likely Source of Contamination  | nation  |                        |
| COPPER, FREE   | 2020 - 2022                          | 0.115   | 0.0414 - 0.21          | ppm                         | 1.3                 | 0                  | Erosion c<br>Corrosio                      | Erosion of natural deposits; Leacl<br>Corrosion of household plumbing | Erosion of natural deposits; Leaching from wood preservatives;<br>Corrosion of household plumbing.            | reservatives;          |
| LEAD   | 2020 - 2022                          | 0.677   | 0 - 0.895              | ddd                         | 15                  | 0                  | Erosion o<br>Corrosion                     | Erosion of natural deposits; Leach<br>Corrosion of household plumbing | Erosion of natural deposits; Leaching from wood preservatives;<br>Corrosion of household plumbing.            | reservatives;          |
| Regulated Contaminants   | nts Collection<br>Date               | Highest<br>Value  | Range                  | Unit                        | MCL                 | MCLG               | Likely Sourc                               | ly Source of Contamination  | on  |                        |
| ARSENIC  | 7/12/2022                            | 1.67  | 1.67                   | ddd                         | 10                  | 0                  | Erosion of n<br>electronics p              | Erosion of natural deposits; rul electronics production wastes.       | Erosion of natural deposits; runoff from orchards; runoff from glass and electronics production wastes.       | off from glass and     |
| BARIUM   | 2/1/2021                             | 0.144   | 0.144                  | ppm                         | 2                   | N                  | Discharge from<br>natural deposits         | om drilling wastes<br>sits.   | harge from drilling wastes; Discharge from metal refineries; Erosion of<br>al deposits.                       | refineries; Erosion of |
| CHROMIUM   | 2/1/2021                             | 2.19  | 2.19                   | ddd                         | 100                 | 100                | Discharge fr                               | om steel and pulp   | Discharge from steel and pulp mills; Erosion of natural deposits  | il deposits.           |
| FLUORIDE   | 2/1/2021                             | 0.253   | 0.253                  | mdd                         | 4                   | 4                  | Erosion of natural of Fertilizer discharge | atural deposits; wa<br>charge.  | Erosion of natural deposits; water additive which promotes strong teeth;<br><sup>-</sup> ertilizer discharge. | notes strong teeth;    |
| NITRATE-NITRITE  | 4/5/2022                             | 15.3  | 3.55 - 15.3            | ppm                         | 10                  | 10                 | Runoff from fer<br>natural deposits        | fertilizer use; Leac<br>sits  | Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits                   | sewage; Erosion of     |
| Unregulated Water Quality Data   | ality Data                           |   | <b>Collection Date</b> | ate                         | Highest Value       |                    | Range                                      | Unit  | Secondary MCL   |                        |
| SULFATE       6/29/2022       10.8         During the 2022 calendar year, we had the below noted violation(s) of drinking water regulations                                      | r vear, we had th                    | e below noted vi  | 6/29/2022              | Irinking water I            | 10.8<br>regulations |                    | 10.8                                       | mg/L  | 250   |                        |
| Violation Type   |                                      |   | Category               | A                           | Analyte             |                    |  |   | Compliance Period   | iod                    |
| MCL, AVERAGE   |                                      |   | MCL                    | Z                           | NITRATE-NITRITE     | RITE               |  |   | 01/01/2022 - 03/31/2022   | 31/2022                |
| The City Of Weeping Water has taken the following actions to return to compliance with the Nebraska Safe Drinking Water Act:<br>Changed blocking of wells to lower $\mu$ Are the | <u>iter has taken the</u><br>イロクレチ い | s taken the following actions to return to compliance with the N<br>レチ いとけら To しっし んかやれたら | s to return to<br>しっいの | <u>compliance wi</u>        | ith the Nebr        | <u>aska Safe D</u> | rinking Wate                               | r Act:  |   |                        |
| Additional Required Health Effects Language:   | alth Effects Langu                   | lage:   |                        |                             |                     |                    |  |   |   |                        |

and blue baby syndrome. Infants below the age of six months who drink water containing nitrate in excess of the MCL could become seriously ill and, if untreated, may die. Symptoms include shortness of breath

There are no additional required health effects violation notices.

and we completed three action(s). During the past year, we were required to conduct four Level 2 assessment(s). We completed four Level 2 assessment(s). In addition, we were required to take four corrective action(s)

Coliforms are bacteria that are naturally present in the environment and are used as an indicator that other, potentially harmful, waterborne pathogens may be present or that a potential pathway exists through which contamination may enter the drinking water distribution system. We found coliforms indicating the need to look for potential problems in water treatment or distribution. When this occurs, we are required to conduct assessment(s) to identify problems and to correct any problems that were found during these assessments.