

# City of Dodge City Consumer Confidence Report 2019

## *Your Drinking Water Surpasses All State and Federal Standards*

The City of Dodge City is committed to providing our customer-owners with reliable drinking water. Throughout 2019, as in years past, Dodge City water has met or surpassed all state and federal health standards.

We are pleased to provide you with this report which details where our water comes from, what our water contains, and other related information. The Safe Water Act (SDWA) requires that utilities issue an annual “**Consumer Confidence Report**” to customers in addition to other notices that may be required by law. You as an informed consumer are our best ally in maintaining a safe and reliable source of drinking water.



### **How can I get involved?**

We encourage public interest in our community’s decisions affecting drinking water. Regular City Commission meetings occur on the 1st & 3rd Mondays of each month at City Hall, 806 2nd Avenue, at 7:00 p.m. The public is welcome. Find out more about the City of Dodge City and the Utility Department on the Internet at [www.dodgecity.org](http://www.dodgecity.org). In addition, you may call the Utility Department at 620-225-8176 for questions concerning this report or other questions you may have about your water.

### **Overview**

In 2019 the Water Department distributed **2.2 billion gallons of water** to our customers. There were an average of **8,436** customers for the City of Dodge City.

### **Water Source**

Dodge City Utilities water is obtained from groundwater from the Ogallala Aquifer. The Ogallala Aquifer runs from Nebraska, through Western Kansas to West Texas. The City currently has 22 wells that it utilizes to pump this water, plus 7 wells in conjunction with National Beef, for a total of 29 wells. There are also two additional wells voluntarily taken out of service due to concerns over nitrates detections.

## **Frequently Asked Questions**

### **Do I need to take special precautions?**

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/Centers for Disease Control (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).

### **Why are there contaminants in my drinking water?**

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 **Environmental Protection Agency’s Safe Drinking Water Hotline (800-426-4791)**. 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. Microbial contaminants, such as viruses and bacteria, that 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, that 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, that 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, that can be naturally occurring or be the result of oil and gas production and mining activities. In order to ensure that tap water is safe to drink, EPA prescribes regulations that limit the amount of certain contaminants in water provided by public water systems. Food and Drug Administration (FDA) regulations establish limits for contaminants in bottled water that must provide the same protection for public health.

# City of Dodge City Water Quality Report Consumer Confidence Report 2019

## Regulated Contaminants

| Contaminant                        | MCL | Highest Value | Range (Low) | Range (High) | Sample Date | Violation | Typical Source   |
|------------------------------------|-----|---------------|-------------|--------------|-------------|-----------|--|
| Arsenic (ppb)                      | 10  | 4.8           | 1.6         | 4.8          | 1/14/2019   | No        | Erosion of natural deposits  |
| Atrazine (ppb)                     | 3   | 4.1           | 4.1         | .024         | 3/6/16      | No        | Runoff from herbicide  |
| Barium (ppm)                       | 2   | .23           | .01         | .23          | 1/22/2019   | No        | Discharge from metal refineries  |
| Chromium (ppb)                     | 100 | 3.5           | 1.1         | 3.5          | 1/14/2019   | No        | Discharge from steel & pulp mills  |
| Fluoride (ppm)                     | 4   | 2.5           | .22         | 2.5          | 1/14/19     | No        | Erosion of nat. deposits; water additive which promotes strong teeth; Discharge from fertilizer & aluminum factories |
| Ethylbenzene (ppb)                 | 700 | 3.3           | 1.3         | 3.3          | 1/14/2019   | No        | Discharge from petroleum refineries  |
| Nitrate (ppm) Measured as Nitrogen | 10  | 8.9           | 1.3         | 8.9          | 2/24/2019   | No        | Runoff from fertilizer use   |
| Selenium (ppb)                     | 50  | 17            | 1.7         | 17           | 1/14/2019   | No        | Erosion of natural deposits  |
| Trichloroethylene                  | 5   | .55           | .55         | .55          | 8/18/14     | No        | Discharge from metal degreasing sites and other factories  |

## Lead and Copper

| Contaminant  | 90th Percentile | Range (low/high) | Unit | AL  | Sites over AL | Violation | Typical Source                  |
|--------------|-----------------|------------------|------|-----|---------------|-----------|---------------------------------|
| Copper (ppm) | .15             | 0.0064-.41       | Ppm  | 1.3 | 0             | No        | Corrosion of household plumbing |
| Lead (ppb)   | 2.8             | 1.1-12           | ppb  | 15  | 0             | No        | Corrosion of household plumbing |

## Disinfection Byproducts

| Contaminant                 | Highest RAA | Range (low/high) | Unit | MCL | MCLG | Violation | Typical Source                             |
|-----------------------------|-------------|------------------|------|-----|------|-----------|--|
| Total Trihalomethanes TTHM  | 14          | 2.8-11           | ppb  | 80  | 2019 | No        | By-products of drinking water chlorination |
| Total Haloacetic Acids HAA5 | 3           | 2.1-2.7          | ppb  | 60  | 2019 | No        |  |

## Radiological Contaminants

| Contaminant                   | Highest Value | Range (low/high) | Unit  | MCL | MCLG | Violation | Typical Source              |
|-------------------------------|---------------|------------------|-------|-----|------|-----------|-----------------------------|
| Combined Radium (-226 & -228) | 0.8           | 0.7-0.8          | PCI/L | 5   | 0    | No        | Erosion of natural deposits |
| Combined Uranium              | 11.3          | 11.3             | µg/L  | 30  | 0    | No        | Erosion of natural deposits |
| Gross Alpha, Excl. Radon & U  | 6.2           | 6.2              | pCi/l | 15  | 0    | No        | Erosion of natural deposits |

## Secondary Contaminants

| Contaminant                     | MCL  | Highest Value | Range (Low) | Range (High) | Sample Date | Violation | Typical Source   |
|---------------------------------|------|---------------|-------------|--------------|-------------|-----------|--|
| 1,2,4 Trimethylbenzene (bbp)    |      | 1.2           | 1.2         | 1.2          | 4/13/11     | No        |  |
| 1,3,5 Trimethylbenzene (ppb)    |      | 1.6           | 1.6         | 1.6          | 2/26/08     | No        |  |
| Alkalinity, Total MG/L          | 300  | 210           | 160         | 210          | 1/14/2019   | No        |  |
| Aluminum                        | 0.05 | 0.073         | 0.014       | 0.073        | 2/12/13     | No        |  |
| Calcium MG/L                    | 200  | 240           | 50          | 240          | 1/14/2019   | No        | Mineral content contributing to hardness of water.   |
| Chloride MG/L                   | 250  | 65            | 5.7         | 65           | 1/22/2019   | No        |  |
| Conductivity UMHOS/CM           | 1500 | 1500          | 430         | 1500         | 1/14/2019   | No        |  |
| Corrosivity LANG                | 0    | .61           | .22-.61     | .08          | 1/14/2019   | No        |  |
| Gross Uranium by Activity PCI/L |      | 9.6           | 9.6         | 9.6          | 5/5/14      | No        |  |
| Hardness, Total (AS CAC03) MG/L | 400  | 770           | 220         | 770          | 1/14/2019   | No        |  |
| Iron (ppm)                      | 0.3  | 0.85          | 0.013       | 0.85         | 1/14/2019   | No        | Sediment; metallic taste; reddish or orange staining.  |
| Magnesium                       | 150  | 40            | 15          | 40           | 1/14/2019   | No        |  |
| Manganese MG/L                  | 0.05 | 0.0096        | 0.0013      | 0.0096       | 1/14/2019   | No        | Mineral content contributing to hardness of water.   |
| O-Xylene MG/L                   | 10   | .0046         | .0024       | .0046        | 1/14/2019   | No        |  |
| Nickel (mg/l)                   | 0.1  | 0.0018        | 0.0011      | 0.0018       | 1/14/2019   | No        | Erosion of nat. deposits   |
| PH                              | 8.5  | 8             | 7.6         | 8            | 1/14/2019   | No        |  |
| Phosphorus, total               | 5    | 0.027         | 0.02        | 0.027        | 1/26/16     | No        |  |
| Potassium MG/L                  | 100  | 6.1           | 4.1         | 6.1          | 1/14/2019   | No        |  |
| Silica                          | 50   | 61            | 29          | 61           | 1/14/2019   | No        | Mineral content contributing to hardness of water.   |
| Sulfate (mg/l)                  | 250  | 600           | 13          | 600          | 1/14/2019   | No        | Almost all natural waters contain sulfate ions, their presence is desirable at lower levels for optimal taste. |
| Sodium (ppb)                    | 100  | 140           | 10          | 140          | 1/14/2019   | No        | Erosion of natural deposits; leaching  |
| TDS Total Dissolved Solids      | 500  | 1200          | 1200        | 1200         | 2/12/2018   | No        | Hardness of water effects this result.   |
| Xylene, META and Para UG/L      |      | 16            | 7.7         | 16           | 1/14/2019   | No        |  |
| Zinc MG/L                       | 5    | .0023         | .0058       | .023         | 1/14/2019   | No        |  |

### What Does This Table Mean?

The table below lists all of the drinking water contaminants that we detected during the calendar year of this report. The presence of contaminants in the water does not necessarily indicate that the water poses a health risk. Unless otherwise noted, the data presented in this table is from testing done in the calendar year of the report. The EPA or the State requires us to monitor certain contaminants less than once per year because the concentrations of these contaminants does not change frequently.

### DEFINITIONS of terms:

**MCLG:** Maximum contaminant level goal is 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.  
**MCL:** Maximum contaminant level is 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.  
**µg/L:** Micrograms per liter  
**AL:** Action level  
**NTU:** Nephelometric Turbidity Units  
**pCi/L:** Picocuries per liter  
**ppm:** Parts per million (ppm) or Milligrams per liter (mg/l)-one part per million corresponds to one minute in two years or a single penny in \$10,000.  
**ppb:** Parts of contaminant per billion parts of water or Micrograms per liter-one part per billion corresponds to one minute in 2,000 years, or a single penny in \$10,000,000.  
**ppt:** Parts per trillion, or nanograms per liter.  
**ppq:** Parts per quadrillion, or picogram per liter



## City of Dodge City 2019 Consumer Confidence Report

***During the 2019 calendar year,  
we had 0 violation(s)  
of drinking water regulations. \****

### Water Testing:

Our water system is required to test a 4 samples per quarter per the haloacetic acids (HAA) and total trihalomethanes (TTHM) By-product (DBP) Rule. Trihalomethanes are the byproducts of chlorination of water that contains natural organic matter. A U.S. Environmental Protection Agency (EPA) survey shows that THMs are present in most chlorinated water supplies. They pose a less acute health risk than do waterborne diseases. If the limits set by the state are exceeded, the City of Dodge City Water Department must notify the citizens of Dodge City. **Action Taken:** If any violations occur, the City of Dodge City would inform the public via Public Notice through the Dodge City Globe, Facebook and [www.dodgecity.org](http://www.dodgecity.org).

### FYI

#### Manganese, Silica, & Sulfate

EPA has established National Secondary Drinking Water Regulations that set **non-mandatory** water quality standards for fifteen (15) other contaminants that are not considered a risk to human health. They were established only as guidelines to assist public water supplies in managing water for aesthetic considerations. These aesthetic effects include taste, odor, color, corrosivity, foaming and staining properties of water. **Health Effects:** People who are on sodium restriction should be aware of the levels in their drinking water and softened water is usually done with salt systems.

#### Results of Radon Monitoring

Dodge City does not test for Radon. Radon is a radioactive gas that you can't see, taste, or smell. It is found throughout the U.S. Radon can move up through the ground and into a home through cracks and holes in the foundation. Radon can build up to high levels in all types of homes.

Radon can also get into indoor air when released from tap water from showering, washing dishes, and other household activities. Compared to radon entering the home through soil, radon entering the home through tap water will in most cases be a small source of radon in indoor air. Radon is a known human carcinogen. Breathing air containing radon can lead to lung cancer. Drinking water containing radon may also cause increased risk of stomach cancer. If you are concerned about radon in your home, test the air in your home. Testing is inexpensive and easy. Fix your home if the level of radon in your air is 4 picocuries per liter of air (pCi/L) or higher. There are simple ways to fix a radon problem that aren't too costly. For additional information, call your state radon program or call EPA's Radon Hotline (800-SOS-RADON).

**El informe contiene información importante sobre la calidad del agua en su comunidad. Tradúzcalo o hable con alguien que lo entienda bien.** For more information contact:

**Corey Keller, Director of Public Works**  
 703 W. Trail, Dodge City, KS 67801  
 Ph. 620-225-8170 Fax: 620-225-8259  
 E-mail: [coreyk@dodgecity.org](mailto:coreyk@dodgecity.org)  
 Web Site: [www.dodgecity.org](http://www.dodgecity.org)