

# Wayne Public Works Authority 2017 CCR

## **Is my water safe?**

Yes - We are pleased to present this year's Annual Water Quality Report (Consumer Confidence Report) as required by the Safe Drinking Water Act (SDWA). This report is designed to provide details about where your water comes from, what it contains, and how it compares to standards set by regulatory agencies. This report is a snapshot of last year's water quality. We are committed to providing you with information because informed customers are our best allies.

## **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 Water Drinking Hotline (800-426-4791).

## **Where does my water come from?**

Wayne Public Works Authority pulls water from two wells along the Canadian River Alluvium Aquifer.

## **Source water assessment and its availability**

The Source Water Assessment Plan (SWAP) for Wayne Public Works is available for review at Town Hall 117 N Shannon, Wayne OK

## **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 (EPA) 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 stormwater runoff, 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 stormwater runoff, 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 stormwater runoff, and septic systems; and radioactive contaminants, which 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 which must provide the same protection for public health.

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

Wayne Public Works Authority holds meetings the first Monday of each month at 6pm, directly following the Town of Wayne meeting. These meetings are open to the public and attendance is encouraged.

### **Description of Water Treatment Process**

Your water is treated by filtration and disinfection. Filtration removes particles suspended in the source water. Particles typically include clays and silts, natural organic matter, iron and manganese, and microorganisms. Your water is also treated by disinfection. Disinfection involves the addition of chlorine or other disinfectants to kill bacteria and other microorganisms (viruses, cysts, etc.) that may be in the water. Disinfection is considered to be one of the major public health advances of the 20th century.

### **Monitoring and reporting of compliance data violations**

**VIOLATION:** We failed to collect follow-up samples within 24 hours of learning of a total coliform-positive sample. These needed to be tested for fecal indicators from all sources that were being used at the time the positive sample was collected.

**POTENTIAL ADVERSE HEALTH EFFECTS:** health effects unknown

**STEPS TAKEN TO CORRECT PROBLEM:** Follow up samples were taken throughout the distribution system within 24 hours and all samples tested NEGATIVE for fecal indicators. However we failed to submit samples from the Wells within 24 hours. The well test submitted also tested NEGATIVE.

### **Additional Information for 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. Wayne Public Works Authority 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 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>.

## Water Quality Data Table

In order to ensure that tap water is safe to drink, EPA prescribes regulations which limit the amount of contaminants in water provided by public water systems. The table below lists all of the drinking water contaminants that we detected during the calendar year of this report. Although many more contaminants were tested, only those substances listed below were found in your water. All sources of drinking water contain some naturally occurring contaminants. At low levels, these substances are generally not harmful in our drinking water. Removing all contaminants would be extremely expensive, and in most cases, would not provide increased protection of public health. A few naturally occurring minerals may actually improve the taste of drinking water and have nutritional value at low levels. 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 for certain contaminants less than once per year because the concentrations of these contaminants do not vary significantly from year to year, or the system is not considered vulnerable to this type of contamination. As such, some of our data, though representative, may be more than one year old. In this table you will find terms and abbreviations that might not be familiar to you. To help you better understand these terms, we have provided the definitions below the table.

| Contaminants  | MCLG or MRDLG | MCL, TT, or MRDL | Detect In Your Water | Range       |                        | Sample Date | Violation      | Typical Source                            |
|---|---------------|------------------|----------------------|-------------|------------------------|-------------|----------------|---|
|   |               |                  |                      | Low         | High                   |             |                |   |
| <b>Disinfectants &amp; Disinfection By-Products</b>   |               |                  |                      |             |                        |             |                |   |
| (There is convincing evidence that addition of a disinfectant is necessary for control of microbial contaminants) |               |                  |                      |             |                        |             |                |   |
| Chlorine (as Cl <sub>2</sub> ) (ppm)  | 4             | 4                | 1                    | NA          | 1                      | 2017        | No             | Water additive used to control microbes   |
| Haloacetic Acids (HAA5) (ppb)   | NA            | 60               | 5                    | NA          | NA                     | 2017        | No             | By-product of drinking water chlorination |
| TTHMs [Total Trihalomethanes] (ppb)   | NA            | 80               | 11                   | NA          | NA                     | 2017        | No             | By-product of drinking water disinfection |
| <b>Radioactive Contaminants</b>   |               |                  |                      |             |                        |             |                |   |
| Alpha emitters (pCi/L)  | 0             | 15               | 1.46                 | NA          | NA                     | 2015        | No             | Erosion of natural deposits               |
| Beta/photon emitters (mrem/yr)  | 0             | 4                | 2.31                 | NA          | NA                     | 2015        | No             | Decay of natural and man-made deposits.   |
| Radium (combined 226/228) (pCi/L)   | 0             | 5                | .908                 | NA          | NA                     | 2015        | No             | Erosion of natural deposits               |
| Contaminants  | MCLG          | AL               | Your Water           | Sample Date | # Samples Exceeding AL | Exceeds AL  | Typical Source |   |
| <b>Inorganic Contaminants</b>   |               |                  |                      |             |                        |             |                |   |

| Contaminants                                 | MCLG | AL  | Your Water | Sample Date | # Samples Exceeding AL | Exceeds AL | Typical Source   |
|--|------|-----|------------|-------------|------------------------|------------|--|
| Copper - action level at consumer taps (ppm) | 1.3  | 1.3 | .245       | 2016        | 0                      | No         | Corrosion of household plumbing systems; Erosion of natural deposits |
| <b>Inorganic Contaminants</b>                |      |     |            |             |                        |            |  |
| Lead - action level at consumer taps (ppb)   | 0    | 15  | 0          | 2016        | 0                      | No         | Corrosion of household plumbing systems; Erosion of natural deposits |

## Undetected Contaminants

The following contaminants were monitored for, but not detected, in your water.

| Contaminants                         | MCLG or MRDLG | MCL, TT, or MRDL | Your Water | Violation | Typical Source  |
|--------------------------------------|---------------|------------------|------------|-----------|---|
| Nitrate [measured as Nitrogen] (ppm) | 10            | 10               | ND         | No        | Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits |
| Nitrite [measured as Nitrogen] (ppm) | 1             | 1                | ND         | No        | Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits |
| Uranium (ug/L)                       | 0             | 30               | ND         | No        | Erosion of natural deposits   |

| Unit Descriptions |   |
|-------------------|---|
| Term              | Definition  |
| ug/L              | ug/L : Number of micrograms of substance in one liter of water            |
| ppm               | ppm: parts per million, or milligrams per liter (mg/L)                    |
| ppb               | ppb: parts per billion, or micrograms per liter (µg/L)                    |
| pCi/L             | pCi/L: picocuries per liter (a measure of radioactivity)                  |
| mrem/yr           | mrem/yr: millirems per year (a measure of radiation absorbed by the body) |
| NA                | NA: not applicable  |
| ND                | ND: Not detected  |
| NR                | NR: Monitoring not required, but recommended.                             |

| Important Drinking Water Definitions |   |
|--------------------------------------|---|
| Term                                 | Definition  |
| MCLG                                 | MCLG: Maximum Contaminant Level Goal: 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                                  | MCL: Maximum Contaminant Level: 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. |

| <b>Important Drinking Water Definitions</b> |   |
|---|---|
| TT  | TT: Treatment Technique: A required process intended to reduce the level of a contaminant in drinking water.  |
| AL  | AL: Action Level: The concentration of a contaminant which, if exceeded, triggers treatment or other requirements which a water system must follow.   |
| Variances and Exemptions                    | Variances and Exemptions: State or EPA permission not to meet an MCL or a treatment technique under certain conditions.   |
| MRDLG                                       | MRDLG: Maximum residual disinfection level goal. 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. |
| MRDL  | MRDL: Maximum residual disinfectant level. 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.                              |
| MNR   | MNR: Monitored Not Regulated  |
| MPL   | MPL: State Assigned Maximum Permissible Level   |

**For more information please contact:**

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