

# **Tranquillo Pines Water Users Cooperative**

## **Consumer Confidence Report 2024**

### **Is my water safe?**

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 (2024) 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). Please review the Fluoride Violation section.

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

Tranquillo Pines Water Users Cooperative (TPWUC) water comes from four groundwater wells. In 2024, a substantial amount of our water was hauled from the Entranosa Water Association (ID NM3524626). As required by the New Mexico Environmental Department (NMED), the Entranosa Water Association Consumer Confidence Report table of contaminants is provided below in a separate table.

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

TPWUC initiated the voluntary source water protection process in Jan 2025 with the New Mexico Environment Department and will be receiving a source water protection plan as a management tool that can be used by the Cooperative going forward. The source water protection plan identifies potential contaminants to our source water and recommended mitigation measures. Once completed, this document can be reviewed by contacting the TPWUC office.

### **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 storm water 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 storm water 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 storm water 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?**

Please watch the TPWUC website for opportunities to get involved with your water system. We are currently looking for individuals with accounting, public funding, and legal experience who are willing to volunteer time and services.

### **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.

### **Water Conservation Tips**

Did you know that the average U.S. household uses approximately 400 gallons of water per day or 100 gallons per person per day? TPWUC's goals are 25-30 gallons/day/person or 800-900 gallons/month/person. This means that a household of two should strive to use less than 1800 gallons/month. Please read and practice the conservation tips below. Small changes to water usage can make a big difference.

- Take short showers - a 5 minute shower uses 4 to 5 gallons of water compared to up to 50 gallons for a bath.
- Shut off water while brushing your teeth, washing your hair and shaving and save up to 500 gallons a month.
- Use a water-efficient showerhead. They're inexpensive, easy to install, and can save you up to 750 gallons a month.
- Bernalillo County provides water efficient showerheads and low flow toilets at low to no cost.
- Go to [tpwuc.net](http://tpwuc.net) and click on Drought Contingency
- Run your clothes washer and dishwasher only when they are full. You can save up to 1,000 gallons a month.
- Water plants only when necessary.
- Fix leaky toilets and faucets. Faucet washers are inexpensive and take only a few minutes to replace. To check your toilet for a leak, place a few drops of food coloring in the tank and wait. If it seeps into the toilet bowl without flushing, you have a leak. Fixing it or replacing it with a new, more efficient model can save up to 1,000 gallons a month.
- Outdoor watering with TPWUC water is strictly prohibited as outlined in the association Bylaws.
- Insulate any pipes exposed to freezing temperatures.
- Teach your kids about water conservation to ensure a future generation that uses water wisely. Make it a family effort to reduce next month's water bill!
- Go to our website and click on Drought Contingency for more information on low to no cost appliance upgrades and conservation tips.
- Visit [www.epa.gov/watersense](http://www.epa.gov/watersense) for more information.

## **Cross Connection Control Survey**

The purpose of this survey is to determine whether a cross-connection may exist at your home or business. A cross connection is an unprotected or improper connection to a public water distribution system that may cause contamination or pollution to enter the system. We are responsible for enforcing cross-connection control regulations and insuring that no contaminants can, under any flow conditions, enter the distribution system. If you have any of the devices listed below please contact us so that we can discuss the issue, and if needed, survey your connection and assist you in isolating it if that is necessary.

- Boiler/ Radiant heater (water heaters not included)
- Underground lawn sprinkler system
- Pool or hot tub (whirlpool tubs not included)
- Additional source(s) of water on the property including storage tanks
- Decorative pond
- Watering trough

## **Source Water Protection Tips**

Protection of drinking water is everyone's responsibility. You can help protect your community's drinking water source in several ways:

- Eliminate excess use of lawn and garden fertilizers and pesticides - they contain hazardous chemicals that can reach your drinking water source.
- Pick up after your pets.
- If you have your own septic system, properly maintain your system to reduce leaching to water sources or consider connecting to a public water system.
- Dispose of chemicals properly; take used motor oil to a recycling center.
- Volunteer in your community. Find a watershed or wellhead protection organization in your community and volunteer to help. If there are no active groups, consider starting one. Use EPA's Adopt Your Watershed to locate groups in your community, or visit the Watershed Information Network's How to Start a Watershed Team.
- Organize a storm drain stenciling project with your local government or water supplier. Stencil a message next to the street drain reminding people "Dump No Waste - Drains to River" or "Protect Your Water." Produce and distribute a flyer for households to remind residents that storm drains dump directly into your local water body.

## **Additional Information for Lead**

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. TRANQUILLO PINES WATER USERS COOP is responsible for providing high quality drinking water and removing lead pipes, but cannot control the variety of materials used in plumbing components in your home. You share the responsibility for protecting yourself and your family from the lead in your home plumbing. You can take responsibility by identifying and removing lead materials within your home plumbing and taking steps to reduce your family's risk. Before drinking tap water, flush your pipes for several minutes by running your tap, taking a shower, doing laundry or a load of dishes. You can also use a filter certified by an American National Standards Institute accredited certifier to reduce lead in drinking water. If you are concerned about lead in your water and wish to have your water tested, contact TRANQUILLO PINES WATER USERS COOP (Public Water System Id: NM3561101) by calling 505-281-3668 or emailing [tpwuc1@gmail.com](mailto:tpwuc1@gmail.com). Information on lead in drinking water, testing methods, and steps you can take to minimize exposure is available at <http://www.epa.gov/safewater/lead>.

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# Water Quality Data Table Tranquillo Pines Water Users Cooperative

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<br>or<br>MRDLG | MCL,<br>TT, or<br>MRDL | Detect<br>In<br>Your<br>Water | Range |      | Sample<br>Date | Violation | Typical Source  |
|---|---------------------|------------------------|-------------------------------|-------|------|----------------|-----------|---|
|   |                     |                        |                               | Low   | High |                |           |   |
| Disinfectants & Disinfection By-Products  |                     |                        |                               |       |      |                |           |   |
| (There is convincing evidence that addition of a disinfectant is necessary for control of microbial contaminants) |                     |                        |                               |       |      |                |           |   |
| Chlorine (as Cl2) (ppm)   | 4                   | 4                      | 1                             | .9    | 1    | 2024           | No        | Water additive used to control microbes   |
| Inorganic Contaminants  |                     |                        |                               |       |      |                |           |   |
| Arsenic (ppb)   | 0                   | 10                     | 4                             | 0     | 4    | 2024           | No        | Erosion of natural deposits; Runoff from orchards; Runoff from glass and electronics production wastes                    |
| Barium (ppm)  | 2                   | 2                      | .065                          | .04   | .065 | 2024           | No        | Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits                                |
| Cyanide (ppb)   | 200                 | 200                    | 10                            | 0     | 10   | 2024           | No        | Discharge from plastic and fertilizer factories; Discharge from steel/metal factories                                     |
| Fluoride (ppm)  | 4                   | 4                      | 4.77                          | 2.85  | 4.77 | 2024           | YES       | Erosion of natural deposits; Water additive which promotes strong teeth; Discharge from fertilizer and aluminum factories |
| Nitrate [measured as Nitrogen] (ppm)  | 10                  | 10                     | .17                           | 0     | .17  | 2024           | No        | Runoff from fertilizer use; Leaching from septic  |

| Contaminants  | MCLG<br>or<br>MRDLG | MCL,<br>TT, or<br>MRDL | Detect<br>In<br>Your<br>Water | Range    |          | Sample<br>Date               | Violation      | Typical Source   |  |
|---|---------------------|------------------------|-------------------------------|----------|----------|------------------------------|----------------|--|--|
|   |                     |                        |                               | Low      | High     |                              |                |  |  |
|   |                     |                        |                               |          |          |                              |                | tanks, sewage; Erosion of natural deposits                 |  |
| Radioactive Contaminants  |                     |                        |                               |          |          |                              |                |  |  |
| Beta/photon emitters (mrem/yr)                                    | 0                   | 4                      | 5.4                           | 3.4      | 5.4      | 2024                         | No             | Decay of natural and man-made deposits.                    |  |
| Radium (combined 226/228) (pCi/L)                                 | 0                   | 5                      | 2.26                          | .88      | 2.26     | 2024                         | No             | Erosion of natural deposits                                |  |
| Uranium (ug/L)<br>Gross alpha excluding radon and uranium (pCi/L) | 0<br>0              | 30<br>15               | 1<br>4.5                      | 0<br>3.8 | 1<br>4.5 | 2024<br>2024                 | No<br>No       | Erosion of natural deposits<br>Erosion of natural deposits |  |
| Contaminants  | MCLG                | AL                     | Your<br>Water                 | Range    |          | # Samples<br>Exceeding<br>AL | Sample<br>Date | Exceeds<br>AL  | Typical Source   |
|   |                     |                        |                               | Low      | High     |                              |                |  |  |
| Inorganic Contaminants  |                     |                        |                               |          |          |                              |                |  |  |
| Copper - action level at consumer taps (ppm)                      | 1.3                 | 1.3                    | .26                           | NA       | .26      | 0                            | 2024           | No   | Corrosion of household plumbing systems; Erosion of natural deposits |
| Lead - action level at consumer taps (ppb)                        | 0                   | 15                     | 3.3                           | NA       | 3.3      | 0                            | 2024           | No   | Corrosion of household plumbing systems; Erosion of natural deposits |

## Violations and Exceedances

### Fluoride Violation

In 2024 our produced water exceeded the Maximum Contaminant Level (MCL) for Fluoride in each quarter tested. Fluoride is a naturally occurring mineral found in the rocks from which our water is produced. Water deeper in the fracture system has had more contact time with the minerals containing Fluoride. Over time our wells produce this deeper water, which has a higher Fluoride concentration than shallower waters. We have seen the Fluoride levels slowly increase over time as result of this.

**Fluoride Risk:** People consuming water containing Fluoride in excess of the MCL over many years may get bone disease, including pain and tenderness of the bones. Fluoride in drinking water at half the MCL or more may cause mottling of children's teeth, usually in children less than nine years old. Mottling, also known as dental fluorosis, may include brown staining and/or pitting of teeth, and occurs only in developing teeth before they erupt from the gums.

**Fluoride Remediation:** Remediation is complicated and expensive. As a result of this violation we are increasing our sampling interval to quarterly and working with NMED to find solutions to remediate the problem. We have also applied for funding to create a Preliminary Engineering Report that will substantially address elevated Fluoride in our drinking water. Until remediation is successful, we recommend drinking and cooking with bottled water for those at risk of excessive fluoride exposure.

| 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 ( _g/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.   |
| 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:**

Contact Name: Carl Walker, 10 Bobolink Ln, Tijeras, NM 87059  
Phone: 505-281-3668

## Water Quality Data Table Entranosa Water Association

**Regulated Contaminants**

| Disinfectants and Disinfection By-Products | Collection Date | Highest Level Detected | Range of Levels Detected | Units |
|--|-----------------|------------------------|--------------------------|-------|
| Chlorine                                   | 2024            | 0.9                    | 0.8 - 0.9                | ppm   |
| Haloacetic Acids (HAA5)                    | 2024            | 3                      | 2.3 - 2.7                | ppb   |
| Total Trihalomethanes (TTHM)               | 2024            | 1                      | 0 - 2.3                  | ppb   |
| Inorganic Contaminants                     | Collection Date | Highest Level Detected | Range of Levels Detected | Units |
| Arsenic                                    | 10/19/2023      | 2                      | 2 - 2                    | ppb   |
| Barium                                     | 10/19/2023      | 0.092                  | 0.092 - 0.092            | ppm   |
| Fluoride                                   | 10/19/2023      | 0.69                   | 0.69 - 0.69              | ppm   |
| Nitrate [measured as Nitrogen]             | 2024            | 3                      | 2.6 - 2.8                | ppm   |
| Radioactive Contaminants                   | Collection Date | Highest Level Detected | Range of Levels Detected | Units |
| Combined Radium 226/228                    | 01/15/2020      | 0.1                    | 0.1 - 0.1                | pCi/L |
| Gross alpha excluding radon and uranium    | 01/15/2020      | 1.4                    | 1.4 - 1.4                | pCi/L |
| Uranium                                    | 01/15/2020      | 4                      | 4 - 4                    | ug/l  |

| Lead and Copper | Date Sampled | 90th Percentile | Units |
|-----------------|--------------|-----------------|-------|
| Copper          | 2024         | 0.57            | ppm   |
| Lead            | 2024         | 20              | ppb   |