



Annual Drinking Water Quality Report

January 1, 2007 – December 31, 2007



Table Bluff Reservation – Wiyot Tribe Public Water System #0605124

Is my water safe?

Last year, your tap water met all U.S. Environmental Protection Agency (EPA) primary drinking water health standards. Here at Table Bluff Reservation (TBR) we vigilantly safeguard our water supplies and we are proud to report that our system has not violated a primary drinking water maximum contaminant level. However, we have detected concentrations of chloride that violate secondary water quality standards [non-enforceable guidelines regulating contaminants that may cause aesthetic effects (such as taste, odor, or color) in drinking water]. Chloride is not associated with negative health impacts.

Where does our water come from?

- The TBR Well is located on the old Reservation, by McNulty Slough
- The Sphere of Influence encompasses the areas that could have impact on our water.
- Our significant sources of possible contamination are: agriculture (dairy farming), septic tanks, historic illegal dumps, road run-off, and saltwater intrusion



Well Site Sphere of Influence for Table Bluff Reservation

COPY FROM CANNIBAL ISLAND 7.5 MINUTE QUAD

How does water get to my faucet?



In a typical community water supply system, water is transported under pressure through a distribution network of buried pipes. Smaller pipes, called house service lines, are attached to the main water lines to bring water from the distribution network to your house. In TBR's community water supply system, water pressure is provided by booster pumps and a hydro-pneumatic tank next to the 105,000 gallon water storage tank on the west side of the new Reservation. As the water is pumped into the storage tank, it is disinfected with chlorine and treated with fluoride for children's teeth and potassium permanganate to assist in the removal of iron and manganese. The water is then pumped into the distribution lines, which deliver the water to each house.

And where does my water come from?

Currently, the Reservation is supplied by ground water from a 107' deep well (the water is pumped from the well at a depth of 100') that is located on the old Reservation, near McNulty Slough, about 1½ miles away. It is likely that the source of excessive chloride concentrations in the water is the proximity of the well to McNulty Slough. Salt water (sodium chloride) from a slough, bay, or the ocean, can work its way into an aquifer and contaminate the ground water with either or both of its constituents, sodium and chloride. While chloride concentrations are elevated in our drinking water, sodium has never been detected in concentrations that exceed primary or secondary drinking water standards.

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.

Contaminants that may be present in source water include:

Microbial contaminants, such as viruses and bacteria, 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, 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.

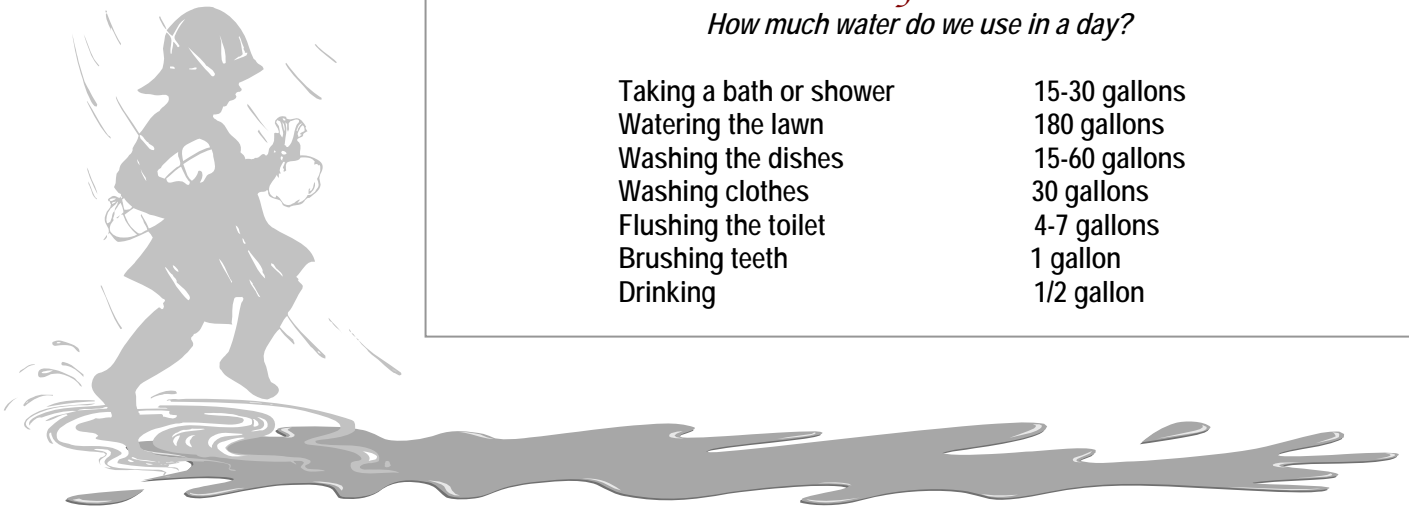
Do I need to take special precautions?

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)

Trivial Information...

How much water do we use in a day?

Taking a bath or shower	15-30 gallons
Watering the lawn	180 gallons
Washing the dishes	15-60 gallons
Washing clothes	30 gallons
Flushing the toilet	4-7 gallons
Brushing teeth	1 gallon
Drinking	1/2 gallon



Test Results

2007						
Contaminant	Violation Y/N	Level Detected	Unit Measurement	MCL	MCLG	Likely Source of Contamination
Total Coliform Bacteria	N	Absent	presence/absence	Presence of coliform bacteria more than one sample	0	Naturally present in the environment
Fecal coliform and E.coli	N	Absent	presence/absence	A routine or repeat sample is total coliform positive and a separate routine or repeat is also fecal coliform or E. coli positive	0	Human and animal waste
Disinfection By-Product Contaminants						
Trihalomethanes (TTHMs)	N	0.014	ppm	0.08	N/A	Byproduct of drinking water disinfection
Haloacetic Acids (HAA5)	N	0.0022	ppm	0.06	N/A	Byproduct of drinking water disinfection
Radioactive Contaminants						
Gross Alpha	N	1.16	PCi/L	15	0	Erosion of natural deposits
Radium 228	N	0.58	PCi/L	5	0	Erosion of natural deposits
Inorganic Contaminants						
Arsenic	N	ND				
Nitrate (as Nitrogen)	N	ND	ppm	10	10	Runoff and leaching from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits
Volatile Organic Compounds						
Bromoform	N	0.0091	ppm	0.01	0	One of 4 compounds that make up the total trihalomethanes. By product of drinking water disinfection.
Secondary Drinking Water Regulated Contaminants						
Chloride	Y	440-450 (range)	ppm	250 (secondary standard, not MCL)	N/A	Salt-water intrusion

Water Quality Data Table

The table above lists all of the regulated drinking water contaminants that we tested for in the past calendar year. If the presence of contaminants is found, this 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 requires us to monitor for certain contaminants less than once per year because the concentrations of these contaminants do not change frequently. Some of our data, though representative, are more than one year old.

Definitions:

In this table you will find many terms and abbreviations you might not be familiar with. To help you better understand these terms we've provided the following definitions:

Non-Detects (ND) - laboratory analysis indicates that the constituent is not present.

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.

Parts per billion (ppb) or Micrograms per liter (µg/l) - one part per billion corresponds to one minute in 2,000 years, or a single penny in \$10,000,000.

Parts per trillion (ppt) or Nanograms per liter (nanograms/l) - one part per trillion corresponds to one minute in 2,000,000 years, or a single penny in \$10,000,000,000.

Parts per quadrillion (ppq) or Picograms per liter (picograms/l) - one part per quadrillion corresponds to one minute in 2,000,000,000 years or one penny in \$10,000,000,000,000.

Picocuries per liter (pCi/L) - picocuries per liter is a measure of the radioactivity in water.

Millirems per year (mrem/yr) - measure of radiation absorbed by the body.

Million Fibers per Liter (MFL) - million fibers per liter is a measure of the presence of asbestos fibers that are longer than 10 micrometers.

Nephelometric Turbidity Unit (NTU) - nephelometric turbidity unit is a measure of the clarity of water. Turbidity in excess of 5 NTU is just noticeable to the average person.

Regulatory Action Level (AL) - the concentration of a contaminant, which, if exceeded, triggers treatment or other requirements, which a water system must follow.

Treatment Technique (TT) - (mandatory language) a treatment technique is a required process intended to reduce the level of a contaminant in drinking water.

Maximum Contaminant Level - (mandatory language) the "Maximum Allowed" (MCL) 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.

Maximum Contaminant Level Goal - (mandatory language) the "Goal"(MCLG) 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.



Additional Water System Information

The full suite of Inorganics was last sampled for in 2004, and will need to be sampled for in 2008. Pesticides were sampled for in 1999, and further sampling is not required - a continued waiver has been granted. Because the nearest serpentine soils (a source of asbestos) are at Bridgeville, CA, asbestos sampling will be unnecessary until 2011. Nitrate will continue to be sampled for annually. Disinfection By-Products were sampled for in 2007 and will be sampled for again in 2008. VOCs (Volatile Organic Compounds) were sampled for in 2007, and will need to be sampled in 2010. Lead and Copper were sampled for in 2005, and will need to be sampled for in 2008. The TBR Public Water System has never had a violation of a primary drinking water maximum contaminant level.

"How can I get involved?"

The water system is governed by the Tribal Council which meets the second Monday of every month at 6:30 pm, and unless otherwise announced, again on the last Monday of every month. Public forums can be held at the Tribal Council Meetings. Call the Tribal office for additional information, 707.733.5055 or 1.800.388.7633.

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