

Anualmente la Ciudad de Woodland distribuye un informe a todos los clientes sobre la calidad y el conteniendo del agua potable para asegurarle que el agua potable es limpia y saludable para beber. Para ver la versión del informe en español por favor visite la página de Internet www.cityofwoodland.org y entre a las secciones: Homepage > Government > Departments > Public Works > Issues & Information > 2013 Water Quality Report.

PWS ID#: 5710006

To Our Water Customers:

The City of Woodland is pleased to provide you with its 2013 annual water quality report. This report is required by state law and designed to inform you about the quality of the water that is provided to you. The language in portions of this report is also state mandated.

The City of Woodland is dedicated and committed to providing customers with the highest-quality drinking water available. We are pleased to announce that the City of Woodland's water supply meets or exceeds all federal and state standards. Our goal is to continue to provide a safe and dependable supply of drinking water.

Under the guidelines provided by the U.S. Environmental Protection Agency (U.S. EPA) and the California Department of Public Health (CDPH), the City of Woodland monitors and tests the drinking water from source (currently groundwater) to tap. Before water reaches your tap, hundreds of these tests have been performed to detect more than 80 different kinds of contaminants and ensure that your water meets all regulatory requirements for health standards.

In addition to the substances reported, we tested for 100 other substances and no measurable amounts were found. We hope this report will provide the answers to any questions you may have about the drinking water supplied by the City of Woodland.

Important Health Information

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 may be particularly at risk from infections. These people should seek advice about drinking water from their health care providers. The U.S. EPA/ CDC (Centers for Disease Control and Prevention) guidelines on appropriate means to lessen the risk of infection by *Cryptosporidium* and other microbial contaminants are available from the Safe Drinking Water Hotline at (800) 426-4791 or http://water.epa. gov/drink/hotline.

Substances That Could Be in Water

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.

In order to ensure that tap water is safe to drink, the U.S. Environmental Protection Agency (U.S. EPA) and the California Department of Public Health (Department) prescribe regulations that limit the amount of certain contaminants in water provided by public water systems. Department regulations also establish limits for contaminants in bottled water that must provide the same protection for public health. 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.

Contaminants that may be present in source water include:

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, that can be naturally occurring or can 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 which can also come from gas stations, urban stormwater runoff, agricultural applications, and septic systems; Radioactive Contaminants, which can be naturally occurring or can be the result of oil and gas production and mining activities.

More information about contaminants and potential health effects can be obtained by calling the U.S. EPA's Safe Drinking Water Hotline at (800) 426-4791.

Get Involved

The City of Woodland periodically conducts public meetings and workshops concerning water issues. The Woodland City Council receives public comments at their regular meetings, which are held on the first and third Tuesdays of each month. For more information, please call the Secretary to the City Manager at (530) 661-5800 or go to http://www. cityofwoodland.org/gov/cityhall/council/default.asp.

Surface Water Project Will Improve Water Quality

Improved water quality starts with a better water source. Although our groundwater supply meets all current drinking water regulations and is safe to use and drink, the water leaving our homes is not considered safe to return to the environment. Our wastewater contains high levels of selenium and salts, among other things. State and federal water/wastewater quality regulations are becoming stricter. The city will not be able to comply with future regulations using groundwater alone. The state is also preparing a new maximum contaminant limit (MCL) for hexavalent chromium in 2014. Hexavalent chromium is currently unregulated, but there is a MCL of 50 parts per billion (ppb) for total chromium, which includes hexavalent chromium. The draft MCL is 10 ppb and the average of all city wells is 19 ppb. For these reasons, the city is moving forward with a regional surface water supply project to largely replace groundwater supplies. The project will deliver high-quality, treated water from the Sacramento River as the city's main drinking water supply starting in 2016. Water will be softer, easier on water-using appliances, and meet current and future state and federal water/wastewater quality regulations.

The Woodland-Davis Clean Water Agency (WDCWA)—a joint powers authority of the cities of Woodland and Davis—was formed in 2009 to finance, build, and operate a regional surface water supply project. The project includes:

- 1. Water intake structure on the Sacramento River
- 2. Pipelines from the intake structure to the water treatment facility
- 3. Regional water treatment facility
- 4. Pipelines from the water treatment facility to Woodland and Davis
- 5. Other repairs and updates to the cities' existing local water systems

Construction will begin in April 2014 and continue through 2016. The facilities should be fully operational in 2016. WDCWA is aggressively seeking state and federal funding to minimize the need for rate increases to support the project. For more information, visit www.wdcwa.com, or call (530) 757-5673.

Protect Your Water Supply—Prevent Pollution of Runoff

Unlike sanitary sewer flows, stormwater and other urban runoff is not treated before it is released to local waterways. Polluted runoff can affect drinking water sources. This, in turn, can affect human health and increase drinking water costs. Please help protect the water supply. Keep chemicals, soaps, and auto fluids out of gutters and storm drains. Minimize the use of fertilizers and pesticides that can wash off and pollute streams or seep into groundwater supplies.

Lead in Home Plumbing

f 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. We 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 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 www.epa.gov/safewater/lead.

CONTACT US

For more information about this report, or for any questions relating to your drinking water, please phone the Woodland Public Works Department at (530) 661-5962 or email pubworks@cityofwoodland.org.

Para más información acerca del reporte o si tiene preguntas acerca del agua potable por favor llame al Departamento de Obras Públicas de la Ciudad de Woodland al (530) 661-5962 o envié un correo electrónico a pubworks@cityofwoodland.org.

Property owners, please share this information with your tenants!

How Hard Is My Water?

A concentration of 17.1 parts per million (ppm) of hard water is equal to 1 grain per gallon. Woodland's water can be as high as 410 ppm, which equals about 24.0 grains per gallon. Water hardness does not affect a person's health but may not be aesthetically pleasing. Over time, water hardness leaves mineral deposits in pipes, fixtures, and equipment that may impact their life expectancy. (See table.)

Water Conservation

The Central Valley is experiencing one of the driest years on record. With increasing demands on the city's groundwater supplies, it is more important than ever to conserve water to ensure the city can meet customer water needs. Up to 70 percent of water usage in the Sacramento Valley is for landscaping. As summer approaches, please check your irrigation system for leaks, and consider installing a weather-based irrigation controller and replacing some of your turf with lowwater-use plants. For more information on home and landscape water conservation and/or to request a water-wise kit and water conservation devices, go to www.cityofwoodland.org/waterconservation.

Source Water Assessment

The California Department of Public Health requires water providers to conduct a source water assessment (SWA) to help protect the quality of future water supplies. The SWA describes where a water system's drinking water comes from, the type of polluting activities that may threaten source water quality, and an evaluation of the water's vulnerability to those threats. The assessment for the City of Woodland's water was completed in December 2002. It found that our groundwater is most vulnerable to present-day land use activities, including agriculture, use of septic systems, gas stations, dry cleaners, and historical contamination plumes from these sources. A copy of the complete assessment report is available at http://swap.ice.ucdavis. edu/TSinfo/TSsources.asp?mySystem=5710006.

Where Does Your Water Come From?

Woodland's water supply is pumped from 19 operational groundwater wells located throughout the city to its distribution pipe system. Groundwater comes from rain that seeps down through the soil until it reaches an impermeable layer. Woodland's water does not pass through a central water treatment facility but is filtered naturally by the sand and gravel as it passes through the aquifers. This is standard practice in well water systems.

The only treatment administered is the addition of liquid chlorine (sodium hypochlorite) at the wells, for disinfection. The 0.3 to 0.5 parts per million dosage is typical of water systems throughout the country. Caution should be taken when using chlorinated water for medical uses such as for dialysis machines or when adding water to fish tanks or ponds.

For water-quality reasons, the city will receive most of its water from the Sacramento River by summer 2016.

What Does Our Water Contain?

Before we deliver water to your homes, we take many steps to ensure its safety. During the past year, we have taken hundreds of water samples in order to determine the presence of any inorganic, biological, radioactive, volatile organic, or synthetic organic constituents. In response to your concerns, we regularly collect and test other samples from the water sources, the distribution system, and customers' homes. The tables below show only those contaminants that were detected in the water. Although all of the substances listed here are under the Maximum Contaminant Level (MCL), we believe it is important that you know exactly what was detected and how much of the substance was present in the water.

We participated in the 3rd stage of the EPA's Unregulated Contaminant Monitoring Regulation (UCMR3) program by performing additional tests on our drinking water. UCMR3 benefits the environment and public health by providing the EPA with data on the occurrence of contaminants suspected to be in drinking water, in order to determine if EPA needs to introduce new regulatory standards to improve drinking water quality. Any UCMR3 detections are shown in the data tables in this report. Contact us for more information on this program.

The state requires us to monitor for certain substances less than once per year because the concentrations of these substances do not change frequently. In these cases, the most recent sample data are included, along with the year in which the sample was taken.

REGULATED PRI	MARY SUBS	STANCES	;										
SUBSTANCE (UNIT OF MEASURE)			s	YEAR SAMPLED	MCL [MRDL]	PHG (MCLG) [MRDLG]	AVERAGE	RAN E LOW-	NGE -HIGH	VIOLATION	TYPICAL SOURCE		
Arsenic (ppb)				2013	10	0.004	2.5	ND	-8.3	No	Erosion of natural deposits; runoff from orchards; glass and electronics production wastes		
Barium (ppm)				2013	1	2	0.22	0.14	-0.26	No	Discharges of oil drilling wastes and from metal refineries; erosion of natural deposits		
Chromium (ppb)				2013	50	(100)	18	ND	0–29	No	Discharge from steel and pulp mills and chrome plating; erosion of natural deposits		
Fluoride (ppm)				2013	2.0	1	0.07	ND-	-0.16	No	Erosion of natural deposits; water additive that promotes strong teeth; discharge from fertilizer and aluminum factories		
Gross Alpha Partic	le Activity (p	Ci/L)		2013	15	(0)	2.35	.35 ND-3.31		No	Erosion of natural deposits		
Nitrate [as nitrate] ¹ (ppm)				2013	45	45	24	24 ND-40		No	Runoff and leaching from fertilizer use; leaching from septic tanks and sewage; erosion of natural deposits		
Nitrate + Nitrite [as N] (ppb)				2013	10,000	10,000	5,290	5,290 73 8,		No	Runoff and leaching from fertilizer use; leaching from septic tanks and sewage; erosion of natural deposits		
Selenium (ppb)				2013	50	30	7	7 NI		No	Discharge from petroleum, glass, and metal refineries; erosion of natural deposits; discharge from mines and chemical manufacturers; runoff from livestock lots (feed additive)		
TTHMs [Total Trih	alomethanes]]–Stage 1	(ppb)	2013	80	NA	4.1	3.1	1–6	No	By-product of drinking water disinfection		
Uranium (pCi/L)				2013	20	0.43	0.76	ND	0-1.4	No	Erosion of natural deposits		
Distribution System Lea	Distribution System Lead and Copper (Tap water samples were collected from 61 homes in 2013)												
SUBSTANCE (UNIT OF MEASURE)	YEAR SAMPLED	ACTION LEVEL	PHG (MCLG)	AVERA (90TH%	GE	SITES ABOVE ACTION LEVEL	VIOLAT	ΓΙΟΝ Τ΄	TYPICAL SOURCE				
Copper (ppm)	2013	1.3	0.3	0.31	1	0	No	o I	nternal c	corrosion of	osion of household plumbing systems; erosion of natural deposits; leaching from wood preservat		
Lead (ppb)	2013	15	0.2	ND)	0	No	o I. n	nternal corrosion of household water plumbing systems; discharges from industrial manufacturers; erosion of natural deposits				
REGULATED SEC	ONDARY S	UBSTAN	ICES										
SUBSTANCE (UNIT OF	MEASURE)	YEAR S	SAMPLED	SMCL	PHG (M	CLG) AVER	AGE R	ANGE LO	W-HIGH	EXCEEDA	NCE TYPICAL SOURCE		
Chloride (ppm)	hloride (ppm)		2013		NS	5 7	1	51-9	-90 No		Runoff/leaching from natural deposits; seawater influence		
Color (Units)		2	013	15	NS	5 0.	9	ND-	-5	No	Naturally-occurring organic materials		
Iron (ppb)		2013		300	NS	5 20	0	ND-140		No	Leaching from natural deposits; industrial wastes		
Specific Conductance (µS/cm)		2	013	1,600	NS	5 88	6	610-1	,000	No	Substances that form ions when in water; seawater influence		
Sulfate (ppm)		2	013	500	NS	S 34	4	21-4	48	No	Runoff/leaching from natural deposits; industrial wastes		
Total Dissolved Solids (ppm)		2	013	1,000	NS	5 50	0	340-4	0–580		Runoff/leaching from natural deposits		
Turbidity (NTU)		2	013	5	NS	S 0.	ND-1.3		1.3	No	Soil runoff		

UNREGULATED SUBSTANCES			
SUBSTANCE (UNIT OF MEASURE)	YEAR SAMPLED	AVERAGE	RANGE LOW-HIGH
Bicarbonate (ppm)	2013	330	240-400
Calcium (ppm)	2013	61	34–74
Carbonate (ppm)	2013	3	ND-16
Chromium VI [Hexavalent Chromium] (ppb)	2013	15	0.2–27
Hardness [as CaCO3] (ppm)	2013	344	220-410
Magnesium (ppm)	2013	46	33–56
pH (Units)	2013	8.2	8.1-8.4
Potassium (ppm)	2013	2.4	2–2.8
Sodium (ppm)	2013	59	50–67
Total Alkalinity (ppm)	2013	331	240-400
UCMR 3-Chlorate (ppb)	2013	103	60–240
UCMR 3-Chlorodifluoromethane (ppb)	2013	0.41	0.19–0.59
UCMR 3-Molybdenum (ppb)	2013	0.04	ND-1.1
UCMR 3-Strontium (ppb)	2013	824	490–1,000
UCMR 3-Vanadium (ppb)	2013	4.5	3.1–15

¹ Nitrate in drinking water at levels above 45 ppm is a health risk for infants of less than six months of age. Such nitrate levels in drinking water can interfere with the capacity of the infant's blood to carry oxygen, resulting in a serious illness; symptoms include shortness of breath and blueness of the skin. Nitrate levels above 45 ppm may also affect the ability of the blood to carry oxygen in other individuals, such as pregnant women and those with certain specific enzyme deficiencies. If you are caring for an infant, or you are pregnant, you should ask advice from your health care provider.

Definitions

Action Level (Regulatory Action Level): The concentration of a contaminant which, if exceeded, triggers treatment or other requirements that a water system must follow.

µS/cm (microsiemens per centimeter): A unit expressing the amount of electrical conductivity of a solution.

MCL (Maximum Contaminant Level): The highest level of a contaminant that is allowed in drinking water. Primary MCLs are set as close to the PHGs (or MCLGs) as is economically and technologically feasible. Secondary MCLs (SMCLs) are set to protect the odor, taste and appearance of drinking water.

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 are set by the U.S. EPA.

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.

MRDLG (Maximum Residual Disinfectant 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.

NA: Not applicable

ND (Not detected): Indicates that the substance was not found by laboratory analysis.

NS: No standard

NTU (Nephelometric Turbidity Units): Measurement of the clarity, or turbidity, of water. Turbidity in excess of 5 NTU is just noticeable to the average person.

pCi/L (picocuries per liter): A measure of radioactivity.

PDWS (Primary Drinking Water Standard): MCLs and MRDLs for contaminants that affect health along with their monitoring and reporting requirements, and water treatment requirements.

PHG (Public Health Goal): The level of a contaminant in drinking water below which there is no known or expected risk to health. PHGs are set by the California EPA.

ppb (parts per billion): One part substance per billion parts water (or micrograms per liter).

ppm (parts per million): One part substance per million parts water (or milligrams per liter).