

2016 Consumer Confidence Report

Water System Name: Winton Water & Sanitary District Report Date: 6/1/2017

We test the drinking water quality for many constituents as required by state and federal regulations. This report shows the results of our monitoring for the period of January 1 - December 31, 2016 and may include earlier monitoring data.

Este informe contiene información muy importante sobre su agua potable. Tradúzcalo ó hable con alguien que lo entienda bien.

Type of water source(s) in use: Groundwater sources distributed throughout system by wells.

Name & general location of source(s): 3 active wells, 1 standby located within the distribution system

Drinking Water Source Assessment information: May 2003- three wells vulnerable to fertilizer, pesticide/herbicide application; historic waste dumps/landfills; construction/demolition staging areas. Full report available upon request at: 6951 N. Winton Way, Winton, CA 95388

Time and place of regularly scheduled board meetings for public participation: First and Third Thursdays of each month at 6951 N. Winton Way, Winton, CA 95388, 5:00PM

For more information, contact: Carlos Valencia, Maintenance Supervisor Phone: (209) 357-3562

TERMS USED IN THIS REPORT

Maximum Contaminant Level (MCL): 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 are set to protect the odor, taste, and appearance of drinking water.

Maximum Contaminant Level Goal (MCLG): 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. Environmental Protection Agency (USEPA).

Public Health Goal (PHG): 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 Environmental Protection Agency.

Maximum Residual Disinfectant Level (MRDL): 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.

Maximum Residual Disinfectant Level Goal (MRDLG): 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.

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

Secondary Drinking Water Standards (SDWS): MCLs for contaminants that affect taste, odor, or appearance of the drinking water. Contaminants with SDWSs do not affect the health at the MCL levels.

Treatment Technique (TT): A required process intended to reduce the level of a contaminant in drinking water.

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

Variations and Exemptions: Department permission to exceed an MCL or not comply with a treatment technique under certain conditions.

ND: not detectable at testing limit

ppm: parts per million or milligrams per liter (mg/L)

ppb: parts per billion or micrograms per liter (µg/L)

ppt: parts per trillion or nanograms per liter (ng/L)

ppq: parts per quadrillion or picogram per liter (pg/L)

of disinfectants to control microbial contaminants.

pCi/L: picocuries per liter (a measure of radiation)

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, 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 result from urban stormwater 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 stormwater 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 stormwater runoff, agricultural application, 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, the USEPA 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 provide the same protection for public health.

Tables 1, 2, 3, 4, 5, 7, and 8 list all of the drinking water contaminants that were detected during the most recent sampling for the constituent. The presence of these contaminants in the water does not necessarily indicate that the water poses a health risk. The Department allows us to monitor for certain contaminants less than once per year because the concentrations of these contaminants do not change frequently. Some of the data, though representative of the water quality, are more than one year old.

TABLE 1 – SAMPLING RESULTS SHOWING THE DETECTION OF COLIFORM BACTERIA

Microbiological Contaminants (complete if bacteria detected)	Highest No. of Detections	No. of months in violation	MCL	MCLG	Typical Source of Bacteria
Total Coliform Bacteria	(In a mo.)	0	More than 1 sample in a month with a detection	0	Naturally present in the environment
Fecal Coliform or <i>E. coli</i>	(In the year)	0	A routine sample and a repeat sample detect total coliform and either sample also detects fecal coliform or <i>E. coli</i>	0	Human and animal fecal waste

TABLE 2 – SAMPLING RESULTS SHOWING THE DETECTION OF LEAD AND COPPER

Lead and Copper (complete if lead or copper detected in the last sample set)	Sample Date	No. of samples collected	90 th percentile level detected	No. sites exceeding AL	AL	PHG	Typical Source of Contaminant
Lead (ppb)	7/12/2013	24	ND	0	15	0.2	Internal corrosion of household water plumbing systems; discharges from industrial manufacturers; erosion of natural deposits
Copper (ppm)	7/12/2013	24	ND	0	1.3	0.3	Internal corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives

TABLE 3 – SAMPLING RESULTS FOR SODIUM AND HARDNESS

Chemical or Constituent	Sample	Level	Range of	MCL	PHG	Typical Source of Contaminant
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(and reporting units)	Date	Detected	Detections		(MCLG)	
Sodium (ppm)	5/20/2014	25	22-84	none	none	Salt present in the water and is generally naturally occurring
Hardness (ppm)	5/20/2014	63	29-55	none	none	Sum of polyvalent cations present in the water, generally magnesium and calcium, and are usually naturally occurring

*Any violation of an MCL or AL is asterisked. Additional information regarding the violation is provided later in this report.

TABLE 4 – DETECTION OF CONTAMINANTS WITH A PRIMARY DRINKING WATER STANDARD

Chemical or Constituent (and reporting units)	Sample Date	Level Detected	Range of Detections	MCL [MRDL]	PHG (MCLG) [MRDLG]	Typical Source of Contaminant
Aluminum (ppb)	5/20/2014	ND	ND<50	1000	N/A	Erosion of natural deposits; residue from some surface water treatment processes
Antimony (ppb)	5/20/2014	ND	ND-7	6	PHG	Discharge from petroleum refineries; fire retardants; ceramics; electronics; solder
Arsenic (ppb)	5/20/2014	2.2	2.8	50	N/A	Erosion of natural deposits; runoff from orchards; glass and electronics production wastes
Barium (ppb)	5/20/2014	143	140-140	1000	2000 ppb	Discharges of oil drilling wastes and from metal refineries; erosion of natural deposits
Beryllium (ppb)	5/20/2014	ND	ND-<.5	4	4 ppb MCLG	Discharge from metal refineries, coal burning factories and electrical, aerospace and defense industries
Cadmium (ppb)	5/20/2014	ND	ND-<1	5	.07 ppb PHG	Internal corrosion of galvanized pipes; erosion of natural deposits; discharge from electroplating and industrial chemical factories and metal refineries; runoff from waste batteries and paints
Chromium (ppb)	5/20/2014	ND	ND-3	50	2.5 ppb PHG	Discharge from steel and pulp mills and chrome plating; erosion of natural deposits
Mercury (ppb)	5/20/2014	ND	ND-<.2	2	1.2 ppb PHG	Erosion of natural deposits; discharge from refineries and factories; runoff from landfills and cropland
Nickel (ppb)	5/20/2014	ND	ND-<.2	2	1.2 ppb PHG	Erosion of natural deposits; discharge from metal factories
Nitrate (as NO ₃) (ppm)	5/20/2014	22	12-28	45	45 ppb MCLG	Runoff and leaching from fertilizer use; leaching from septic tanks and sewage; erosion of natural deposits
Selenium (ppb)	5/20/2014	ND	ND-12	50	30 ppm PHG	Discharge from petroleum, glass and metal refineries; erosion of natural deposits; discharge from mines and chemical manufacturers; runoff from livestock lots (feed additive)
Thallium (ppb)	5/20/2014	ND	ND-<5	2	.01 MCLG	Leaching from ore-processing sites; discharge from electronics, glass, and drug factories
DBCP (ppb)	7/16/2013	0.016	ND-0.2	0.2	0 ppb	Runoff/leaching from soil fumigant used on soybeans, cotton, pineapples, and orchards

TABLE 5 – DETECTION OF CONTAMINANTS WITH A SECONDARY DRINKING WATER STANDARD						
Chemical or Constituent (and reporting units)	Sample Date	Level Detected	Range of Detections	MCL	PHG (MCLG)	Typical Source of Contaminant
Color (Units)	5/20/2014	<5.0	<1-<1	15	N/A	Naturally-occurring organic materials
Foaming Agents (MBAS) Ppm	5/20/2014	<0.050	<.05	.5	N/A	Municipal and Industrial waste discharges
Iron (ppb)	5/20/2014	ND	ND-2.7	300	N/A	Leaching from natural deposits; industrial wastes
Manganese (ppb)	5/20/2014	ND	ND-92	50	N/A	Leaching from natural deposits
Odor-Threshold (ton)	5/20/2014	ND	1-1	3	N/A	Naturally-occurring organic materials
Silver (ppb)	5/20/2014	ND	ND-<5	100	N/A	Industrial discharges
Turbidity (NTU)	5/20/2014	<0.10	<.1-.18	5	N/A	Soil runoff
Zinc (ppb)	5/20/2014	ND	ND-<.02	5000	N/A	Runoff/leaching from natural deposits; industrial wastes
Total Dissolved solids (ppm)	5/20/2014	220	200-300	500-1000- 1500	N/A	Runoff/leaching from natural deposits
Specific Conductance (umho/cm)	5/20/2014	250	220-460	900-1600- 2200	N/A	Substances that form ions when in water; seawater influence
Chloride (ppm)	5/20/2014	8.4	8.5-71	250-500- 600	N/A	Runoff/leaching from natural deposits; seawater influence
Sulfate (ppm)	5/20/2014	12	2-13	250-500- 600	N/A	Runoff/leaching from natural deposits; seawater influence

TABLE 6 – DETECTION OF UNREGULATED CONTAMINANTS

Chemical or Constituent (and reporting units)	Sample Date	Range of Detections	Public Health Goal	Notification Level	Health Effects Language
Boron	2003	<.03-.110		1 ppm	Some men who drink water containing boron in excess of the notification level over many years may experience reproductive effects, based on studies in dogs
Vanadium	2003	<5-21		50ppb	The babies of some pregnant women who drink water containing vanadium in excess of the notification level may have an increased risk of developmental effects, based on studies in laboratory animals

Trichloropropane (1,2,3 TCP) *	07/12/2016	0.026	0052-10	5 ppt	Some people who use water containing 1,2,3- trichloropropane in excess of the Public Health Goal or Notification Levels over many years may have an increased risk of cancer, based on studies in laboratory animals
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*Any violation of an MCL, MRDL, or TT is asterisked. Additional information regarding the violation is provided later in this report.

DISINFECTION BYPRODUCTS, DISINFECTANT RESIDUALS AND DISINFECTION BYPRODUCT PRECURSORS

Contaminant	Test Date	Level Detected	Range of Levels Detected	Traditional MCL or MDRL in mg/L	PHG (MCLG) or MRDLG	Typical Source of Contaminant
TTHMs (total Trihalomethanes) (ppb)	07/14/15	< 0.50	.56-.56	80	N/A	Byproduct of drinking water disinfection
HAA5 Total Haloacetic Acids	07/14/15	<2.0	0.3-0.3	60	N/A	Byproduct of drinking water disinfection
Chlorine (ppm)	Daily	0.4	0.25-0.35	4.0 as CL2	4 (as CL2)	Drinking water disinfectant added for treatment

Additional General Information on 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 the water poses a health risk. More information about contaminants and potential health effects can be obtained by calling the USEPA’s Safe Drinking Water Hotline (1-800-426-4791).

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. USEPA/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 (1-800-426-4791).

Lead-Specific Language for Community Water Systems: 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. Winton Water & Sanitary District 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>.

**Summary Information for Violation of a MCL, MRDL, AL, TT,
or Monitoring and Reporting Requirement**

VIOLATION OF A MCL, MRDL, AL, TT, OR MONITORING AND REPORTING REQUIREMENT				
Violation	Explanation	Duration	Actions Taken to Correct the Violation	Health Effects Language
1,2,3-TCP Trichloropropane Notification Level Only	Concentration level of a contaminant in drinking water delivered for human consumption that the department has determined, based on available scientific information may increase risk of cancer and warrants notification	Ongoing	Public notification and notification of governing body; voluntary quarterly monitoring; feasibility study of treatment alternatives	Some people who use water containing 1,2,3- trichloropropane in excess of notification level over many years may have an increased risk of getting cancer, based on studies in laboratory animals
NONE				