City of Dixon
Consumer Confidence Report 2015
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What is a Consumer Confidence Report?

A Consumer Confidence Report is an annual report required by the State and the U.S. Environmental Protection Agency (EPA). The purpose of this report is to raise your awareness of the quality of the water served to you by the City of Dixon. There were multiple tests performed on the water served to you in calendar year 2015. This report is a summary of samples taken. Samples were analyzed by a certified laboratory, using proper techniques, assuring good, quality results. This report excludes information related to the system owned and operated by California Water Service Company (Cal Water).

Your Water Source and Supply Facilities

The source of drinking water for the City of Dixon is groundwater, located hundreds of feet below the surface. The system operates, and maintains five wells that pump water into the distribution system. The wells are located throughout the system. The wells can produce approximately 7500 gallons per minute. Booster pumps pressurize the system to between 57 and 61 pounds of pressure.

The water distribution system has four storage tanks to store water. Collectively, these tanks can store up to 4.3 million gallons of water. They provide a buffer for peak demand or other high flow situations such as firefighting. All well and booster pumps stations have diesel generators to provide water in case power interruptions.

The ground water meets all federal and state standards, except the newest standard for Hexavalent Chromium (Cr6). This new standard is exceeded and the State has given the City time to devise and build a treatment system for Hexavalent Chromium removal. Pilot testing for Cr6 removal is set to begin soon. Source assessments were completed in 2003.

Small amounts of chlorine are added to the water from the wells before it enters the distribution system. The addition of chlorine minimizes the possibility of microbial contamination in your drinking water. During 2015, weekly bacteriological samples were drawn at representative points in the distribution system (Table 1), whenever new lines were placed into service or if maintenance requires a shutting off of pressure.

Commitment to Service

The City of Dixon is committed to providing great customer service. The most visible aspect of service is the billing cycle. Billing is handled by the staff at the City of Dixon City Hall. For billing questions contact (707) 678-7000. If there are service related questions, the same number should be used and the service staff will be contacted to resolve any issues.

A Message from the EPA

The sources off all drinking water (tap and bottled water), may include in the water cycle rivers, streams, ponds, lakes, reservoirs, springs and wells. As water falls on the surface of the land as rain or snow, it travels through water courses and soaks into the ground. It dissolves naturally occurring minerals and, at times, can pick up substances resulting from the presence of animals or from human activity. Contaminants that may be present in surface water include:

Microbial contaminants, such as bacteria and viruses that may come from sewage treatment plants, septic systems or 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, 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 that are by-products of industrial processes and petroleum production, and can also come from gas stations, urban stormwater runoff and septic systems.

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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 CA Drinking Water Program prescribe regulations that limit the amount of certain contaminants in water provided by a public water service like the City of Dixon. 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 contaminants. The presence of the contaminants does not necessarily indicate that the water poses a health risk.

Some people may be more vulnerable to some contaminants than the general population. Immuno-compromised persons such as persons undergoing cancer 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.

More information about contaminants and potential health effects can be obtained by calling the EPA Safe Drinking Water Hotline at 1 (800) 426-4791, or by accessing the website at www.epa.gov/safewater.

If you have any further questions about this report or the quality of the water, please contact Severn Trent Services Plant Manager Frank Mora at (209) 597-9707.

Lead in Water

If present, elevated levels of lead can cause serious health problems, especially in pregnant woman and young children. Lead in drinking water is primarily from service lines and internal house plumbing. The City of Dixon is responsible to provide high quality drinking water bat cannot control the material used in plumbing components. If you are concerned about lead in your water, you may wish to have your water tested. However, the City of Dixon did conduct Lead and Copper monitoring in 2015 (Table 2) and all results were well below Action Levels. More 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://epa.gov/safewater/lead.

Nitrate in Drinking Water

The following information must be provided to customers in any water source which has nitrate level of over 50 percent of the MCL. The MCL for nitrate is 45 ppm, and Well 52 (Valley Glen) had a maximum level of 31 ppm and Well 44 (Industrial Well) had a maximum level of 26 ppm. The average level in the system was 17.6 ppm. Nitrate above levels of **45 ppm** is a health risk for infants of less than six months of age. Elevated nitrate levels in the drinking water can interfere with the capacity of the infant's blood to carry oxygen, resulting in serious illness; symptoms include shortness of breath, and blueness of skin. Nitrates above 45 ppm may also affect the ability of the blood to carry oxygen for other individuals such as pregnant woman and with specific enzyme deficiencies. If you are caring for an infant, or you are pregnant, you should ask advice from your health care provider.

Common Abbreviations and Terms Used in the Report

In the tables below, you may find unfamiliar terms and abbreviations. To help you better understand these terms we've provided the following definitions:

Maximum Contaminant Level or MCL: 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 or MCLG: 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.

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

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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 or 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 or 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 of disinfectants to control microbial contaminants.

Million fibers per liter (MFL): measure of the presence of asbestos fibers that are longer than 10 micrometers.

Millirem per year (mrem/yr): measure of radiation absorbed by the body.

"ND" means not detected and indicates that the substance was not found by laboratory analysis.

Parts per billion (ppb) or Micrograms per liter ($\mu g/I$): one part by weight of analyte to 1 billion parts by weight of the water sample.

Parts per million (ppm) or Milligrams per liter (mg/l): one part by weight of analyte to 1 million parts by weight of the water sample.

Picocurie per liter (pCi/L): measure of the radioactivity in water.

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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	1		More than 1 sam with a detection	ple in a month	0	Naturally present in the environment				
Fecal Coliform or E. coli	0	0	A routine sample sample detect tot and either sample fecal coliform or	al coliform e also detects	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)	No. of samples collected	90 th percentile level detected	No. sites exceeding AL	AL	PHG	Typical Source(s) of Contaminant				
Lead (ppb)	20	4.9	0	15	2	Internal corrosion of household water plumbing systems; discharges from industrial manufacturers; erosion of natural deposits				
Copper (ppm)	20	0.20	0	1.3	0.30	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 (and reporting units)	Sample Date	Average	Range of Detections	MCL	PHG (MCLG)	Typical Source of Contaminant				
Sodium (ppm)	4/15/15	53.6	38-79	none	none	Salt present in the water and is generally naturally occurring				
Hardness (ppm)	4/15/15	208	120-330	none	none	Sum of polyvalent cations present in the water, generally magnesium and calcium,				

and are usually naturally occurring

TABLE 4 – DETI	ECTION OF	F CONTAI	MINANTS WIT	ΓΗ Α <u>PRIN</u>	MARY DRIN	KING WATER STANDARD		
Chemical or Constituent (and reporting units)	Sample Date(s)	Average	Range of Detection	MCL [MRDL]	PHG (MCLG) [MRDLG]	Typical Source(s) of Contaminant		
Barium (ppm)	4/15/15	0.20	0.12-0.37	1	2	Erosion of natural deposits, discharge from oil drilling wastes and from metal		
Hexavalent Chromium (ppb)	4/02/15 6/26/15 9/16/15 12/15/15	17	12-27	10	10	Erosion of natural deposits, discharge fron electroplating factories, leather tanneries, wood preservation, chemical synthesis, refractory production, and textile manufacturing facilities		
Nitrate as NO3 (ppm)	4/02/15 4/15/15 6/26/15 9/16/15 12/15/15	17.6	2.9-31	45	45	Runoff and leaching from fertilizer use; leaching from septic tanks and sewage; erosion of natural deposits		
Chromium (ppm)	4/15/15	0.02	0.012034	0.05	0.05	Erosion of natural deposits, discharge from steel and pulp mills and chrome plating		
Fluoride (ppm)	4/15/15	0.22	0.19-0.22	2.0	1,0	Erosion of natural deposits; water additive which promotes strong teeth; discharge from fertilizer and aluminum factories		
Chlorine (ppm)	n/a	1.04	0.74-1.42	[4.0]	[4.0]	Added to drinking water for disinfection		
Total Trihalomethanes (ppb)	9/29/15	2.9	2.5-3.3	80	n/a	By-product of drinking water chlorination		
Gross Alpha Activity (pCi/L)	3/05/14	2.76	2.76	15	0	Erosion of natural deposits		
TABLE 5 – DETECTION OF CONTAMINANTS WITH A SECONDARY DRINKING WATER STANDARD								
Chemical or Constituent (and reporting units)	Sample Date	Average	Range of Detections	MCL	PHG (MCLG)	Typical Source of Contaminant		
Chloride (ppm)	4/15/15	16.80	12-31	500	n/a	Runoff/leaching from natural deposits: industrial wastes		
Sulfate (ppm)	4/15/15	34	28-45	500	n/a	Runoff/leaching from natural deposits: industrial wastes		
Total Dissolved Solids (ppm)	4/15/15	366	340-430	1000	n/a	Runoff/leaching from natural deposits		
Specific Conductance (micromhos)	4/15/15	644	570-750	1600	n/a	Substance that form ions when in water: seawater influence		