

**CONSUMER CONFIDENCE REPORT**  
*for Calendar Year 2009*  
**City of Sebastopol Municipal Water System**  
July 01, 2010

**We test the 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, 2009**

If you have questions about the contents of this report, or concerns about drinking water quality in Sebastopol, please contact  
**Sebastopol Public Works Department, 714 Johnson Street, Sebastopol, CA 95472 Phone (707) 823-5331 Fax (707) 823-4721**  
Susan Kelly, Engineering Director Richard Emig, Superintendent of Public Works  
Or visit our City Web Site at <http://www.ci.sebastopol.ca.us>

**Opportunities for public participation in decisions affecting drinking water quality in Sebastopol include**

Regularly Scheduled Meetings of the Sebastopol City Council

1<sup>st</sup> and 3<sup>rd</sup> Tuesdays of each month

Sebastopol Youth Annex, 425 Morris Street, Sebastopol.

Agendas are posted at City Hall and published in Sonoma West Times and News in advance of the meetings.

Contact the City Clerk at (707) 823-1153 for additional information.

It is important that this report reach all of our water customers and consumers. If your property is a rental, or if you are a business owner or manager, please distribute this information to your tenants. Additional copies of this report are available at City Hall or the Public Works Department.

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

**Drinking Water Source Water Assessment**

An assessment of the drinking water source(s) for the Sebastopol Municipal Water system was completed in November, 1998. Our sources are considered most vulnerable to the following activities associated with contaminants detected in the water supply; gas stations, dry cleaners, leaking underground storage tanks. In addition, our sources are considered vulnerable to a number of other activities such as metal plating/finishing, plastics/synthetics producers, septic systems, and sewer lines. A copy of the complete assessment is available for inspection or purchase at the Sebastopol Engineering Department.

**General Information About Drinking Water and Possible Sources of Contamination**

**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, 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 byproducts of industrial processes and petroleum production, and can also come from gas stations, urban stormwater runoff, and septic systems.
- Radioactive contaminants, which can be naturally occurring or be the result of oil and gas production and mining activities.

**Source Water Testing Regulations and Monitoring Results**

**In order to ensure that tap water is safe to drink**, USEPA and the state Department of Health Services (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.

Sebastopol monitors its water wells for over 80 different constituents, according to USEPA and Health Department requirements. Results reported in the following tables are for detected contaminants only. All testing results are available for inspection at the Public Works Department

**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 level of a disinfectant added for water treatment that may not be exceeded at the consumer's tap.

**Maximum Residual Disinfectant Level Goal (MRDLG):** The level of a disinfectant added for water treatment below which there is no known or expected risk to health. MRDLGs are set by the U.S. Environmental Protection Agency

**Primary Drinking Water Standards (PDWS):** MCLs 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 which 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 (ug/L)

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

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

Tables 1, 2, 3, 4 and 5 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 requires 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.

\*Any violation of an MCL or AL is asterisked. Additional information regarding the violation is provided following these tables.

**TABLE 1 - SAMPLING RESULTS SHOWING THE DETECTION OF COLIFORM BACTERIA**

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

**TABLE 2 - SAMPLING RESULTS SHOWING THE DETECTION OF LEAD AND COPPER**

<b>Lead and Copper</b> <i>(to be completed only if there was a detection of lead or copper in the last sample set)</i>	<b>No. of samples collected</b>	<b>90<sup>th</sup> percentile level detected</b>	<b>No. Sites exceeding AL</b>	<b>AL</b>	<b>MCLG</b>	<b>Typical Source of Contaminant</b>
<b>Lead (ppb)</b>	20	<5.0	0	15	2	Internal corrosion of household water plumbing systems; discharges from industrial manufacturers; erosion of natural deposits.
<b>Copper (ppm)</b>	20	0.18	0	1.3	0.17	Internal corrosion of household water plumbing systems; erosion of natural deposits; leaching from wood preservatives.

**TABLE 3 - SAMPLING RESULTS FOR SODIUM AND HARDNESS**

<i>Chemical or Constituent (and reporting units)</i>	<i>Sample Date</i>	<i>Level Detected</i>	<i>Range of Detections</i>	<i>MCL</i>	<i>PHG (MCLG)</i>	<i>Typical Source of Contaminant</i>
<i>Sodium (ppm)</i>	<i>Various in 2008</i>	<i>19</i>	<i>19</i>	<i>none</i>	<i>none</i>	<i>Generally found in ground and surface water</i>
<i>Hardness (ppm)</i>	<i>"</i>	<i>143</i>	<i>120 -170</i>	<i>none</i>	<i>none</i>	<i>Generally found in ground and surface water</i>

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

<i>Chemical or Constituent (and reporting units)</i>	<i>Sample Date</i>	<i>Level Detected</i>	<i>Range of Detections</i>	<i>MCL</i>	<i>PHG (MCLG)</i>	<i>Typical Source of Contaminant</i>
<i>Radioactivity (Total Alpha) (Picouries)</i>	<i>4/10/06 (Well 8 3/20/08)</i>	<i>.6</i>	<i>0.00 – 0.963</i>	<i>15</i>	<i>(0)</i>	<i>Erosion of natural deposits.</i>
<i>Fluoride</i>	<i>Various in 2008</i>	<i>.13</i>	<i>&lt;0.1 – 0.15</i>	<i>2</i>	<i>1</i>	<i>Erosion of natural deposits, water additive that promotes strong teeth; discharge from fertilizer and aluminum factories.</i>
<i>Arsenic (ppb)*</i>	<i>Various in 2009</i>	<i>7.23</i>	<i>3.0 – 12</i>	<i>10</i>	<i>N/A</i>	<i>Erosion of natural deposits, runoff from orchards, glass and electronics production wastes.</i>
<i>Chromium</i>	<i>Various in 2008</i>	<i>3</i>	<i>&lt;1.00 – 6.6</i>	<i>50</i>	<i>(100)</i>	<i>Discharge from steel and pulp mills and chrome plating; erosion of natural deposits.</i>
<i>Nitrate</i>	<i>Various in 2009</i>	<i>7.075</i>	<i>&lt;2.0 – 12</i>	<i>45</i>	<i>45</i>	<i>Runoff and leaching from fertilizer use; leaching from septic tanks, sewage, and erosion from natural deposits.</i>
<i>Chlorine (ppm)</i>	<i>Weekly (Various Locations)</i>	<i>.12</i>	<i>.03 -30</i>	<i>4</i>	<i>4</i>	<i>Drinking water disinfectant added for treatment.</i>

**TABLE 5 - DETECTION OF CONTAMINANTS WITH A SECONDARY DRINKING WATER STANDARD**

<i>Chemical or Constituent (and reporting units)</i>	<i>Sample Date</i>	<i>Level Detected</i>	<i>Range of Detections</i>	<i>MCL</i>	<i>PHG (MCLG)</i>	<i>Typical Source of Contaminant</i>
<i>Turbidity (Units)</i>	<i>Various in 2008</i>	<i>1.88</i>	<i>0.38 – 4.9</i>	<i>5</i>	<i>N/A</i>	<i>Soil runoff.</i>
<i>Total Dissolved Solids (TDS) (ppm)</i>	<i>"</i>	<i>218</i>	<i>180 – 240</i>	<i>1000</i>	<i>N/A</i>	<i>Runoff/leaching from natural deposits.</i>
<i>Specific Conductance (micromhos)</i>	<i>"</i>	<i>325</i>	<i>270 – 360</i>	<i>1600</i>	<i>N/A</i>	<i>Substances that form ions when in water; seawater influence.</i>
<i>Chloride (ppm)</i>	<i>"</i>	<i>14</i>	<i>13 – 15</i>	<i>500</i>	<i>N/A</i>	<i>Substances that form ions when in water; seawater influence.</i>
<i>Sulfate (ppm)</i>	<i>"</i>	<i>15</i>	<i>10 – 18</i>	<i>500</i>	<i>N/A</i>	<i>Runoff/leaching from natural deposits &amp; industrial wastes.</i>
<i>Apparent Color (units)</i>	<i>"</i>	<i>4.5</i>	<i>3.0-5.0</i>	<i>15</i>	<i>N/A</i>	<i>Naturally-occurring organic materials.</i>

***Summary Information for Contaminants Exceeding an MCL, MRDL, or AL, or a Violation of Any Treatment Technique or Monitoring and Reporting Requirement during calendar year 2009***

***\*Arsenic***

*The average of the water sample results that were collected from January-December 2008 resulted in the issuance of a compliance order by the State Department of Public Health. The City came into compliance with the arsenic rule in the 3<sup>rd</sup> quarter of 2009 as a result of the average of the water samples that continued to be collected.*

***Additional General Information On Drinking Water***

*All 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).*

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