

2015 Consumer Confidence Report

Water System Name: Bellevue school Report Date: June 24th 2016

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, 2015 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: Well

Name & general location of source(s): Well #01 3223 Primrose Ave.

Drinking Water Source Assessment information: _____

Time and place of regularly scheduled board meetings for public participation: 7:00pm on 3rd Tuesday of each month
At District Office – 3150 Education Drive; Santa Rosa, CA 95407

For more information, contact: Joel Dontos Phone: (707) 542-5197 x8

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 of disinfectants to control microbial contaminants.

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: State Board 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)

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 State Water Resources Control Board (State Board) prescribe regulations that limit the amount of certain contaminants in water provided by public water systems. State Board 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 State Board 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.) <u>0</u>	<u>0</u>	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) <u>0</u>	<u>0</u>	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)	<u>8/26/2012</u>	<u>5</u>	<u>0</u>	<u>0</u>	15	0.2	Internal corrosion of household water plumbing systems; discharges from industrial manufacturers; erosion of natural deposits
Copper (ppm)	<u>8/26/2012</u>	<u>5</u>	<u>1.185</u>	<u>0</u>	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 (and reporting units)	Sample Date	Level Detected	Range of Detections	MCL	PHG (MCLG)	Typical Source of Contaminant
Sodium (ppm)	<u>2/26/1996</u>	<u>23.5</u>		none	none	Salt present in the water and is generally naturally occurring

Hardness (ppm)	2/26/1996	131		none	none	Sum of polyvalent cations present in the water, generally magnesium and calcium, and are usually naturally occurring
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*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 1]	PHG (MCLG) [MRDLG]	Typical Source of Contaminant
TTHMs (Total Trihalomethanes)	2015/07/09	0.5		80	N/A	By-product of drinking water disinfection
Haloacetic Acids	2015/07/09	0		60	N/A	By-product of drinking water disinfection
Aluminum	4/23/2008	.06ppm		1	0.6	Erosion of natural deposits; residue from some surface water treatment processes
Antimony	4/23/2008	<6ppm		6	20	Discharge from petroleum refineries; fire retardants; ceramics; electronics; solder
Arsenic	4/4/2014	5.1ppb		10	0.004	Erosion of natural deposits; runoff from orchards; glass and electronics production wastes
Asbestos	4/4/2014	MFL		7	7	Internal corrosion of asbestos cement water mains; erosion of natural deposits
Barium	4/23/2008	.1ppm		1	2	Discharge of oil drilling wastes and from metal refineries; erosion of natural deposits
Beryllium	4/23/2008	<1ppb		4	1	Discharge from metal refineries, coal-burning factories, and electrical, aerospace, and defense industries
Cadmium	4/23/2008	<1ppb		5	0.04	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	4/23/2008	<1ppb		50	(100)	Discharge from steel and pulp mills and chrome plating; erosion of natural deposits
Fluoride	4/23/2008	.19ppm		2.0	1	Erosion of natural deposits; water additive which promotes strong teeth; discharge from fertilizer and aluminum factories
Hexavalent Chromium	4/4/2014	0ppb		10	0.02	Discharge from electroplating factories, leather tanneries, wood preservation, chemical synthesis, refractory production, and textile manufacturing facilities; erosion of natural deposits

Mercury (inorganic)	4/23/2008	<1ppb		2	1.2	Erosion of natural deposits; discharge from refineries and factories; runoff from landfills and cropland
Nickel	4/23/2008	<10ppb		100	12	Erosion of natural deposits; discharge from metal factories
Nitrate (as nitrogen, N)	4/23/2008	12ppm		10	10	Runoff and leaching from fertilizer use; leaching from septic tanks and sewage; erosion of natural deposits
Nitrite (as nitrogen, N)	4/23/2008	0ppm		1	1	Runoff and leaching from fertilizer use; leaching from septic tanks and sewage; erosion of natural deposits
Perchlorate	4/4/2014	<4ppb		6	1	Perchlorate is an inorganic chemical used in solid rocket propellant, fireworks, explosives, flares, matches, and a variety of industries. It usually gets into drinking water as a result of environmental contamination from historic aerospace or other industrial operations that used or use, store, or dispose of perchlorate and its salts.
Selenium	4/23/2008	<5ppb		50	30	Discharge from petroleum, glass, and metal refineries; erosion of natural deposits; discharge from mines and chemical manufacturers; runoff from livestock lots (feed additive)
Thallium	4/23/2008	<1ppb		2	0.1	Leaching from ore-processing sites; discharge from electronics, glass, and drug factories
Gross Alpha Particle Activity	5/7/2007	<3pCi/L		15	(0)	Erosion of natural deposits
Benzene	4/4/2012	0ppb		1	0.15	Discharge from plastics, dyes and nylon factories; leaching from gas storage tanks and landfills
Carbon tetrachloride	4/4/2012	0ppt		500	100	Discharge from chemical plants and other industrial activities
1,2-Dichlorobenzene	4/4/2012	0ppb		600	600	Discharge from industrial chemical factories
1,4-Dichlorobenzene	4/4/2012	0ppb		5	6	Discharge from industrial chemical factories
1,1-Dichloroethane	4/4/2012	0ppb		5	3	Extraction and degreasing solvent; used in the manufacture of pharmaceuticals, stone, clay,

						and glass products; fumigant
1,2-Dichloroethane	4/4/2012	0ppt		500	400	Discharge from industrial chemical factories
1,1-Dichloroethylene	4/4/2012	0ppb		6	10	Discharge from industrial chemical factories
cis-1,2-Dichloroethylene	4/4/2012	0ppb		6	100	Discharge from industrial chemical factories; major biodegradation byproduct of TCE and PCE groundwater contamination
trans-1,2-Dichloroethylene	4/4/2012	0ppb		10	60	Discharge from industrial chemical factories; minor biodegradation byproduct of TCE and PCE groundwater contamination
Dichloromethane	4/4/2012	0ppb		5	4	Discharge from pharmaceutical and chemical factories; insecticide
1,2-Dichloropropane	4/4/2012	0ppb		5	0.5	Discharge from industrial chemical factories; primary component of some fumigants
1,3-Dichloropropene	4/4/2012	0ppt		500	200	Runoff/leaching from nematocide used on croplands
Ethylbenzene	4/4/2012	0ppb		300	300	Discharge from petroleum refineries; industrial chemical factories
Methyl-tert-butyl ether	4/4/2012	0ppb		13	13	Leaking underground storage tanks; discharges from petroleum and chemical factories
Monochlorobenzene	4/4/2012	0ppb		70	70	Discharge from industrial and agricultural chemical factories and drycleaning facilities
Styrene	4/4/2012	0ppb		100	0.5	Discharge from rubber and plastic factories; leaching from landfills
1,1,2,2-Tetrachloroethane	4/4/2012	0ppb		1	0.1	Discharge from industrial and agricultural chemical factories; solvent used in production of TCE, pesticides, varnish and lacquers
Tetrachloroethylene (PCE)	4/4/2012	0ppb		5	0.06	Discharge from factories, dry cleaners, and auto shops (metal degreaser)
1,2,4-Trichlorobenzene	4/4/2012	0ppb		5	5	Discharge from textile-finishing factories
1,1,1-Trichloroethane	4/4/2012	0ppb		200	1000	Discharge from metal degreasing sites and other factories; manufacture of food wrappings

1,1,2-Trichloroethane	4/4/2012	0ppb		5	0.3	Discharge from industrial chemical factories
Trichloroethylene (TCE)	4/4/2012	0ppb		5	1.7	Discharge from metal degreasing sites and other factories
Toluene	4/4/2012	0ppb		150	150	Discharge from petroleum and chemical factories; underground gas tank leaks
Trichlorofluoromethane	4/4/2012	0ppb		150	1300	Discharge from industrial factories; degreasing solvent; propellant and refrigerant
1,1,2-Trichloro-1,2,2-trifluoroethane	4/4/2012	0ppm		1.2	4	Discharge from metal degreasing sites and other factories; drycleaning solvent; refrigerant
Vinyl chloride	4/4/2012	0ppt		500	50	Leaching from PVC piping; discharge from plastics factories; biodegradation byproduct of TCE and PCE groundwater contamination
Xylenes	4/4/2012	0ppm		1.750	1.8	Discharge from petroleum and chemical factories; fuel solvent
2,4,5-TP (Silvex)	4/4/2014	0ppb		50	3	Residue of banned herbicide
Atrazine	4/4/2014	0ppb		1	0.15	Runoff from herbicide used on row crops and along railroad and highway right-of-ways
Dalapon	4/4/2014	0ppb		200	790	Runoff from herbicide used on rights-of-ways, and crops and landscape maintenance
Diquat	4/4/2014	0ppb		20	15	Runoff from herbicide use for terrestrial and aquatic weeds
Endothall	4/4/2014	0ppb		100	94	Runoff from herbicide use for terrestrial and aquatic weeds; defoliant
Ethylene dibromide (EDB)	4/4/2014	0ppt		50	10	Discharge from petroleum refineries; underground gas tank leaks; banned nematocide that may still be present in soils due to runoff and leaching from grain and fruit crops
Heptachlor	4/4/2014	0ppt		10	8	Residue of banned insecticide
Heptachlor epoxide	4/4/2014	0ppt		10	6	Breakdown of heptachlor
Lindane	4/4/2014	0ppt		200	32	Runoff/leaching from insecticide used on cattle, lumber, and gardens
Methoxychlor	4/4/2014	0ppt		30	0.09	Runoff/leaching from insecticide used on fruits, vegetables, alfalfa, and livestock

Oxamyl (Vydate)	4/4/2014	0ppb		50	26	Runoff/leaching from insecticide used on field crops, fruits and ornamentals, especially apples, potatoes, and tomatoes
Pentachlorophenol	4/4/2014	0ppb		1	0.3	Discharge from wood preserving factories, cotton and other insecticidal/herbicidal uses
Picloram	4/4/2014	0ppb		500	500	Herbicide runoff
Simazine	4/4/2014	0ppb		4	4	Herbicide runoff

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

TABLE 6 – DETECTION OF UNREGULATED CONTAMINANTS

Chemical or Constituent (and reporting units)	Sample Date	Level Detected	Range of Detections	Notification Level	Health Effects Language

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

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. [INSERT NAME OF UTILITY] 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. [Optional: If you do so, you may wish to collect the flushed water and reuse it for another beneficial purpose, such as watering plants.] 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/lead>.

For Systems Providing Surface Water as a Source of Drinking Water

TABLE 8 - SAMPLING RESULTS SHOWING TREATMENT OF SURFACE WATER SOURCES	
Treatment Technique ^(a) (Type of approved filtration technology used)	
Turbidity Performance Standards ^(b) (that must be met through the water treatment process)	Turbidity of the filtered water must: 1 – Be less than or equal to _____ NTU in 95% of measurements in a month. 2 – Not exceed _____ NTU for more than eight consecutive hours. 3 – Not exceed _____ NTU at any time.
Lowest monthly percentage of samples that met Turbidity Performance Standard No. 1.	
Highest single turbidity measurement during the year	
Number of violations of any surface water treatment requirements	

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

(b) Turbidity (measured in NTU) is a measurement of the cloudiness of water and is a good indicator of water quality and filtration performance. Turbidity results which meet performance standards are considered to be in compliance with filtration requirements.

* Any violation of a TT is marked with an asterisk. Additional information regarding the violation is provided below.

Summary Information for Violation of a Surface Water TT

VIOLATION OF A SURFACE WATER TT				
TT Violation	Explanation	Duration	Actions Taken to Correct the Violation	Health Effects Language

Summary Information for Operating Under a Variance or Exemption
