## **2020** Consumer Confidence Report

Water System Name:	RBVON (Recology)	Report Date:	03/26/21

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, 2020 and may include earlier monitoring data.

#### Este informe contiene información muy importante sobre su agua para beber. Favor de comunicarse RBVON (Recology) a (209) 484-5003 para asistirlo en español.

Type of water source(s) in use:	Groundwater Well						
Name & general location of source(	s):	Well at 39	09 Gaffery Rd. Vernalis, C	A			
Drinking Water Source Assessment	informa	tion:	None Performed				
Time and place of regularly scheduled board meetings for public participation:  None							
For more information, contact:	Randy J	ohnson		Pho	one:	(209) 484-5003	
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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.

Variances 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
- Organic chemical contaminants, including synthetic and volatile organic chemicals, that are by-products of industrial 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.

SWS CCR Form Revised February 2021 In order to ensure that tap water is safe to drink, the U.S. EPA and the State Water Resources Control Board (State Water Board) prescribe regulations that limit the amount of certain contaminants in water provided by public water systems. The U.S. Food and Drug Administration regulations and California law also establish limits for contaminants in bottled water that provide the same protection for public health.

Tables 1, 2, 3, 4, 5, and 6 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 Water 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.

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

TABLE 1 – SAMPLING RESULTS SHOWING THE DETECTION OF COLIFORM BACTERIA							
Microbiological Contaminants	Highest No. of Detections	No. of Months in Violation	MCL	MCLG	Typical Source of Bacteria		
Total Coliform Bacteria (State Total Coliform Rule)	(In a mo.)	0	l positive monthly sample (a)	0	Naturally present in the environment		
Fecal Coliform or <i>E. coli</i> (State Total Coliform Rule)	(In the year)	0	A routine sample and a repeat sample are total coliform positive, and one of these is also fecal coliform or <i>E. coli</i> positive	None	Human and animal fecal waste		
E. coli (Federal Revised Total Coliform Rule)	(In the year)	0	(b)	0	Human and animal fecal waste		

<sup>(</sup>a) Two or more positive monthly samples is a violation of the MCL.

<sup>(</sup>b) Routine and repeat samples are total coliform-positive and either is *E. coli*-positive or system fails to take repeat samples following *E. coli*-positive routine sample or system fails to analyze total coliform-positive repeat sample for *E. coli*.

TABLE 2 – SAMPLING RESULTS SHOWING THE DETECTION OF LEAD AND COPPER										
Lead and Copper (and reporting units)	Sample Date	No. of Samples Collected	90 <sup>th</sup> Percentile Level Detected	No. Sites Exceeding AL	AL	PHG	Typical Source of Contaminant			
Lead (ppb)	08/25/20	5	< 5	0	15	0.2	Internal corrosion of household water plumbing systems; discharges from industrial manufacturers; erosion of natural deposits			
Copper (ppm)	08/25/20	5	0.5	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 (and reporting units)	Sample Date	Leve Detect		Range of etections	MCL	PHG (MCLG)	<b>Typical Source of Contaminant</b>			
Sodium (ppm)	02/07/18	190			None	None	Salt present in the water and is generally naturally occurring			
Hardness (ppm)	02/07/18	250			None	None	Sum of polyvalent cations present in the water, generally magnesium and calcium, and are usually naturally occurring			

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TABLE 4 – DE	Sample	Average	Range of	MCL	PHG	KING WATER STANDARD		
(and reporting units)	Date	Level Detected	<b>Detections</b>	[MRDL]	(MCLG) [MRDLG]	Typical Source of Contaminant		
Nitrate as Nitrogen (ppm) (At the Well)	2020	10	7 - 12*	10	10	Runoff and leaching from fertilizer use; leaching from septic tanks and sewage; erosion of natural deposits		
Nitrate as Nitrogen (ppm) (After the Treatment)	2020	1	< 0.4 - 4	10	10	Runoff and leaching from fertilizer use; leaching from septic tanks and sewage; erosion of natural deposits		
Selenium (ppb)	02/07/18	12		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)		
Fluoride (ppm)	02/07/18	0.2		2	1	Erosion of natural deposits; water additive which promotes strong teeth; discharge from fertilizer and aluminum factories		
Gross Alpha (pCi/l)	2020	< 3	< 3 - 4	15	(0)	Erosion of natural deposits		
Uranium (pCi/L)	2020	2	1 - 3	20	0.4	Erosion of natural deposits		
TABLE 5 – DETI	ECTION OF	CONTAMI	NANTS WIT	H A SECO	NDARY DRI	INKING WATER STANDARD		
Chemical or Constituent (and reporting units)	Sample Date	Level Detected	Range of Detections	SMCL	PHG (MCLG)	Typical Source of Contaminant		
Chloride (ppm)	02/07/18	74		500	N/A	Runoff/leaching from natural deposits; seawater influence		
Sulfate (ppm)	02/07/18	320		500	N/A	Runoff/leaching from natural deposits' industrial wastes		
Total Dissolved Solids (ppm)	02/07/18	830		1000	N/A	Runoff/leaching from natural deposits		
Specific Conductance	02/07/18	1300		1600	N/A	Substances that form ions when in water; seawater influence		
(umho/cm)								
Turbidity (NTU)	02/07/18	0.4		5	N/A	Soil runoff		
	TABL	E 6 - DETEC	TION OF AD	DITIONAL	L CONTAM	INANTS		
Chemical or Constituent (and reporting units)	Sample Date	Range o		)	Не	ealth Effects Language		
Distribution System Chlorine Residual (ppm)	2020	< 0.1 - 0		Some peo of the MI nose. So	Some people who use water containing chlorine well in excess of the MRDL could experience irritating effects to their eyes at nose. Some people who drink water containing chlorine well i excess of the MRDL could experience stomach discomfort.			

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### **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 U.S. EPA'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. U.S. EPA/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.

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. RVBON (Recology) 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/lead.

# Summary Information for Violation of an MCL, MRDL, AL, TT, or Monitoring and Reporting Requirements

In 2020, Nitrate as Nitrogen has been detected in the source (well) drinking water above the maximum allowable limit.

Nitrate as Nitrogen in drinking water at levels above 10 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 serious illness; symptoms include shortness of breath and blueness of the skin. Nitrate-N levels above 10 ppm may also affect the ability of the blood to carry oxygen in other individuals, such as pregnant women and those with specific enzyme deficiencies. If you are caring for an infant, or you are pregnant, you should ask advice from your health care provider.

Infants below the age of six months who drink water containing nitrate in excess of the MCL may quickly become seriously ill and, if untreated, may die because high nitrate levels can interfere with the capacity of the infant's blood to carry oxygen. Symptoms include shortness of breath and blueness of the skin. High nitrate levels may also affect the oxygen-carrying ability of the blood of pregnant women.

Because of the high nitrate at the well, the RBVON (Recology) water system has installed a treatment system to remove or significantly lower nitrate. Monthly water testing after the treatment confirms that the treatment is effectively lowering nitrate in the drinking water system to within acceptable levels.

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