



# CITY OF LAKEPORT

Over 100 years of community,  
pride, progress, and service.

## 2020 Consumer Confidence Report

March 12th, 2021

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, 2020 thr. December 31, 2020(or earlier, if monitoring was not required in 2020).

**Este documento contiene informacion muy importante sobre su agua potable. Si ud. tiene algunas preguntas sobre lo siguiente, favor de llamar (707) 263-5615 ext 303**

**Type of water source(s): Groundwater (Wells), and surface water.**

**The Green Ranch wells normally operate all year. Scotts Creek Wells normally are in operation from mid July to November. Normal Operation of the Surface Water Treatment Plant is May through August.**

**Name and location of source(s): Groundwater comes from four wells located at Scotts Creek and the Green Ranch. Surface water comes from Clear Lake.**

### Drinking Water Source Assessment information:

An assessment of the groundwater source for the City of Lakeport was completed by the California Department of Public Health in 2002. Clear Lake is considered most vulnerable to these activities: Managed Forests and Lake Recreation. Wells are most vulnerable to the following activities not associated with any detected contaminants: Agricultural drainage, septic systems - low density and Agricultural/Irrigation. A copy of the completed assessment is available at the California Department of Public Health, 50 D Street, Suite 200, Santa Rosa, Ca 95404. You may request that summary of the assessment be sent to you by contacting Zach Rounds, District Engineer, State Water Resources Control Board. The City of Lakeport also participated in the Clearlake Watershed Sanitary Survey updated in 2017 for the Surface water.

**Time and place of regularly scheduled board meetings for public participation:** City Council meetings are held on the first and third Tuesday of each month at 6:00 pm at City Hall, located at 225 Park Street, Lakeport. Items related to the water system are placed on the City Council agenda.

**For more information, contact:** Paul Harris, Utilities Superintendent

**Phone:** (707) 263-3578, Ext. 402

### Terms used in this report

<b>Maximum Contaminant Level (MCL):</b> The highest level of a contaminant that is allowed in drinking water. Primary MCL's are set as close to the PHG's (or MCLG's) as is economically and technologically feasible. Secondary MCL's are set to protect the odor, taste, and appearance of drinking water.	<b>Primary Drinking Water Standards (PDWS):</b> MCL's for contaminants that affect health along with their monitoring and reporting requirements, and water treatment requirements.
<b>Maximum Contaminant Level Goal (MCLG):</b> The level of a contaminant in drinking water below which there is no known or expected risk to health. MCLG's are set by the U.S. Environmental Protection Agency	<b>Secondary Drinking Water Standards (SDWS):</b> MCL's for contaminants that affect taste, odor, or appearance of the drinking water. Contaminants with SDWS do not affect the health at the MCL level.
<b>Maximum Residual Disinfectant Level (MRDL):</b> The level of a disinfectant added for water treatment that may not be exceeded at the customer's tap.	<b>Public Health Goal (PHG):</b> The level of a contaminant in drinking water below which there is no known or expected health risk. PHG's are set by the California Environmental Protection Agency.
<b>Maximum Residual Disinfectant Level Goal (MRDLG):</b> The level of a disinfectant added for water treatment below which there are no known or expected risks to health. MRDLG's are set by the U.S. EPA	<b>Treatment Technique (TT):</b> A required process intended to reduce the level of a contaminant in drinking water.
<b>ND:</b> Not detectable at testing limit	<b>Regulatory Action Level (AL):</b> The concentration of a contaminant which, if exceeded, triggers treatment or other requirements which a water system must follow.
<b>ppm:</b> parts per million or milligrams per liter (mg/L)	
<b>ppb:</b> parts per billion or micrograms per liter (ug/L)	
<b>ppt:</b> parts per trillion or nanograms per liter (ng/L)	
<b>pCi/L:</b> picocuries per liter ( a measure of radiation).	<b>Variances and Exemptions:</b> Department permission to exceed an MCL or not comply with a treatment technique under certain conditions.

**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 minerals that occur naturally and, in some cases, radioactive material. It can, also, pick up substances resulting from the presence of animals or from human activity.

**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).

### 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 storm water 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 storm water runoff, and septic systems.
- \* *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 storm water runoff, and septic systems.
- \* *Radioactive contaminants* , which 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**, 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.

**Tables 1,2,3,4, and 5 list all of the drinking water contaminants that were detected during monitoring performed in the year 2020 or earlier.** 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 are not expected to vary significantly from year to year. 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**

Contaminant	Unit Measurement		MCL		MCLG	Highest Number of detections	No. of months in violation	Typical Source of Bacteria
Total Coliform Bacteria	No more than 1 positive sample in a month.				0	0	0	Naturally present in the environment.
Fecal Coliform and <i>E. Coli</i>	A routine sample and a repeat sample detect total coliform and either sample also detects fecal coliform or <i>E. Coli</i> .				0	0	0	Human and animal waste
Total Coliform Bacteria (federal Revised Total Coliform Rule)	TT	N/A	TT	N/A	0	0	0	Coliforms are bacteria that are naturally present in the environment and are used as an indicator that other, potentially harmful, waterborne pathogens may be present or that a potential pathway exists through which contamination may enter the drinking water distribution system. If found, coliforms indicate the need to look for potential problems in water treatment or distribution. When this occurs, we are required to conduct assessment(s) to identify problems and to correct any problems that were found during these assessments.
Turbidity	1.6		5		N/A	0	0	Soil runoff

**TABLE 2 - Sampling Results Showing The Detection Of Lead and Copper**

Contaminant	Number of samples	90th percentile level detected	Number of samples exceeding AL	Number of schools requesting sampling	MOST RECENT SAMPLE DATE	AL	MCLG	Typical source of Contaminant
Lead (ppb)	20	0.00 mg/L	0	1	August 22, 2018	15	2	Internal corrosion of household plumbing systems; discharges from industrial manufacturers; erosion of natural deposits.
Copper (ppm)	20	0.13mg/L	0	1	August 22, 2018	1.3	0.17	Internal corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives.

**TABLE 3 - Sampling Results For Sodium and Hardness**

Contaminants	Unit	MCL	PHG	MCLG	MOST RECENT SAMPLE DATE	LEVEL DETECTED	RANGE OF DETECTIONS	Typical Source of Contaminant
Sodium (Na)	ppm	N/A	N/A	N/A	June 22, 2020	13	N/A	Generally found in ground and surface water.
Hardness ( as CaCO3 )	ppm	N/A	N/A	N/A	June 22, 2020	142	N/A	Generally found in ground and surface water.

**Sampling results for Inorganic Contaminants**

Aluminum (Al)	ug/L	1000	N/A	N/A	June 22, 2020	72	N/A	Erosion of natural deposits; residue from some surface water treatment processes
Antimony	ug/L	<6.0	6	N/A	June 22, 2020	<6.0	N/A	Discharge from petroleum refineries; fire retardants; ceramics; electronics; solder.
Arsenic	ug/L	10	N/A	N/A	June 22, 2020	2.9	N/A	Erosion of natural deposits; runoff from orchards; glass and electronics production wastes.
Asbestos	MFL	7	N/A	7	June 18, 2018	N/D	N/A	Internal corrosion of asbestos cement water mains; erosion of natural deposits.
Barium(Ba)	ug/L	1000	N/A	2	June 22, 2020	<100	N/A	Discharge of oil drilling wastes from metal refineries; erosion of natural deposits.
Beryllium	ug/L	4	N/A	4	June 22, 2020	<1.0	N/A	Discharge from metal refineries, coal-burning factories, and electrical, aerospace, and defense industries.
Cadmium	ug/L	5	0.07	N/A	June 22, 2020	<1.0	N/A	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	ug/L	50	2.5	N/A	June 22, 2020	<10	N/A	Discharge from steel and pulp mills and chrome plating; erosion of natural deposits.
Copper	ugL	1000	0.17	N/A	August 22, 2018	0.013	N/A	Internal corrosion of galvanizes pipes; erosion of natural deposits; discharge from electroplating and industrial chemical factories and metal refineries; runoff from waste batteries and paints.
Fluoride	ppm	2	1	N/A	June 22, 2020	0.1	N/A	Erosion of natural deposits; water additive which promotes strong teeth; discharge from fertilizer and aluminum factories.
Lead	ppb	AL=15	2	N/A	August 22, 2018	0.00 mg/L	2	Internal corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservative.
Mercury (inorganic)	ug/L	2	1.2	N/A	June 22, 2020	<1.0	N/A	Erosion of natural deposits; discharge from refineries and factories; runoff from landfills; runoff from croplands.
Nickel	ug/L	100	N/A	100	June 22, 2020	<10	N/A	Erosion of natural deposits; discharge from metal factories.
Nitrate (as nitrate, N03)	ppm	10	1	45	August 17, 2020	<0.40	N/A	Runoff and leaching from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits.
Nitrite (as nitrogen, N)	ppm	10	1	N/A	August 17, 2020	<0.40	N/A	Runoff and leaching from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits.
Selenium	ug/L	50	N/A	50	June 22, 2020	<5.0	N/A	Discharge from petroleum, glass and metal refineries; erosion of natural deposits; discharge from mines and chemical manufacturers; runoff from livestock lots (feed additive).
Thallium	ug/L	2	0.1	N/A	June 22, 2020	<1.0	N/A	Leaching from ore-processing sites; discharge from electronics, glass, and drug factories.
Perchlorate	ug/L	100	N/A	N/A	June 22, 2020	<4.0	N/A	Naturally occurring and manmade chemical that can affect the functioning of the thyroid gland at sufficiently high doses.

**Sampling Results For Volatile Organic Contaminants**

Total Trihalomethanes	ug/L	100	N/A	N/A	October 19, 2020	4.56	N/A	By-product of drinking water chlorination.
1,2,3 Trichloropropane	ug/L	0.005	N/A	N/A	October 15, 2019	ND	N/A	Manmade chemical found at industrial or hazardous waste sites.

**Sampling Results for Disinfection and Disinfection Byproducts, Disinfection Residuals, and Disinfection Byproduct Precursors.**

Contaminants	Unit	MCL (MRDL)	PHG (MRDLG)	MCLG (MRDLG)	MOST RECENT SAMPLE DATE	LEVEL DETECTED	RANGE OF DETECTIONS	Typical Source of Contaminant
Chlorine	ppm	4	0.8	0.8	December 28, 2020	.77 Free	0-5.0	Drinking water disinfectant added for treatment.
Haloacetic Acids	ug/L	60	N/A	N/A	October 19, 2020	2.3	N/A	By-product of drinking water chlorination.
TTHM's (Total Trihalomethanes)	ug/L	80	N/A	N/A	October 19, 2020	4.56	N/A	By-product of drinking water chlorination.
Bromate	ug/L	10	0	0	July 1, 2020	N/D	N/A	By-product of drinking water ozone.

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

**Note:** There are no PHG's or MCLG's for constituents with secondary drinking water standards because these are not health-based levels, but set on the basis of aesthetics.

Aluminum (Al)	ug/L	1000	N/A	N/A	June 10, 2019	430	N/A	Erosion of natural deposits; residue from some surface water treatment processes
Chloride ( Cl )	ppm	500	N/A	N/A	June 10, 2019	5.5	N/A	Runoff/leaching from natural deposits; seawater influence.
Copper	ppm	1	N/A	N/A	August 22, 2018	.13 mg/L	0.17	Internal corrosion of galvanizes pipes; erosion of natural deposits; discharge from electroplating and industrial chemical factories and metal refineries; runoff from waste batteries and paints.
Foaming Agents (MBAS)	ppm	0.5	N/A	N/A	September 16, 2019	<0.050	N/A	Municipal and industrial waste discharges.
Iron (Fe)	ug/L	300	N/A	N/A	September 16, 2019	<100	N/A	Leaching from natural deposits; industrial wastes.
Manganese (Mn)	ug/L	50	N/A	N/A	September 16, 2019	<20	N/A	Leaching from natural deposits.
Methyl-tert-butyl ether	ug/L	5	N/A	N/A	December 9, 2019	<3.0	N/A	Leaking from underground storage tanks; discharge from petroleum and chemical factories.
Odor--Threshold	Units	3	N/A	N/A	June 22, 2020	2.5	N/A	Naturally -occurring organic materials.
Silver	ug/L	100	N/A	N/A	July 10, 2019	<10	N/A	Industrial discharges.
Thioencarb	ppb	1	N/A	N/A	June 22, 2020	<1.0		Runoff/leaching from rice herbicide.
Turbidity	NTU	5	N/A	N/A	June 22, 2020	1.6	N/A	Soil runoff.
Zinc	ug/L	5000	N/A	N/A	June 22, 2020	<50	N/A	Runoff/leaching from natural deposits.
Total Dissolved Solids (TDS)	ppm	1000	N/A	N/A	June 22, 2020	190	N/A	Runoff/leaching from natural deposits.
Specific Conductance	umho/cm	1600	N/A	N/A	March 11, 2020	280	N/A	Substances that form ions when in water; seawater influence.
Sulfate (as SO4)	ppm	500	N/A	N/A	September 16, 2019	6.9	N/A	Runoff/leaching from natural deposits; industrial wastes.

**SAMPLING RESULTS SHOWING TREATMENT OF SURFACE WATER**

**Treatment Technique (TT); Alternative-Multi Media**, a required process intended to reduce the level of contamination in drinking water:

**Turbidity Performance:** Standards that must be met through the water treatment process. 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 the following filtration requirements: (1) Be less than or equal to **0.2 NTU** in 95% of measurements in a month, (2) Not exceed **1.0 NTU** for more than eight consecutive hours, (3) Not exceed **5.0 NTU** at any time.

Lowest monthly percentage of samples that met Turbidity Performance Standard No. 1: **100%**

Highest single turbidity measurement during the year: 0.19

Number of violations of any other surface water treatment requirements: **0**

The City of Lakeport is required to collect many water samples throughout the year, which some may not be listed. These samples are either not detectable ND or less than < .

For more information on contaminants that are not listed, Call the City of Lakeport's Water Department @ (707) 263-3578 Ext. 701