

2019 Consumer Confidence Report

Water System Name: Inverness Public Utility District

Report Date: 6/11/2020

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 to December 31, 2019 and may include earlier monitoring data.

Este informe contiene información muy importante sobre su agua para beber. Favor de comunicarse Inverness Public Utility District, 50 Inverness Way, Inverness, CA 94937 (415) 669-1414 para asistirlo en español.

这份报告含有关于您的饮用水的重要讯息。请用以下地址和电话联系 Inverness Public Utility District 以获得中文的帮助: 50 Inverness Way, Inverness, CA 94937 (415) 669-1414

Ang pag-uulat na ito ay naglalaman ng mahalagang impormasyon tungkol sa inyong inuming tubig. Mangyaring makipag-ugnayan sa Inverness Public Utility District, 50 Inverness Way, Inverness, CA 94937 o tumawag sa (415) 669-1414 para matulungan sa wikang Tagalog.

Báo cáo này chứa thông tin quan trọng về nước uống của bạn. Xin vui lòng liên hệ Inverness Public Utility District tại 50 Inverness Way, Inverness, CA 94937 (415) 669-1414 để được hỗ trợ giúp bằng tiếng Việt.

Tsab ntawv no muaj cov ntsiab lus tseem ceeb txog koj cov dej haus. Thov hu rau Inverness Public Utility District ntawm 50 Inverness Way, Inverness, CA 94937 (415) 669-1414 rau kev pab hauv lus Askiv.

Type of water source(s) in use: Surface water that originates in springs and streams in the Inverness Ridge watershed above the town.

Name & general location of source(s): A network of small catchment basins above the First, Second and Third Valleys collects the water.

Drinking Water Source Assessment information: An assessment of the surface water sources for IPUD was completed in 2016. The Assessment (Watershed Sanitary Survey) determined that the sources were not vulnerable to contaminants. A copy of the Assessment is available in the District Offices at 50 Inverness Way, Inverness, CA 94937.

Time and place of regularly scheduled board meetings for public participation: Typically, 9:00 a.m. 4th Wednesday of each month, Firehouse Meeting Room, 50 Inverness Way, Inverness, CA 94937

For more information, contact: James K. Fox Phone: (415) 669-1414

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 (U.S. EPA).

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.

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: Permissions from the State Water Resources Control Board (State Board) to exceed an MCL or not comply with a treatment technique under certain conditions.

Level 1 Assessment: A Level 1 assessment is a study of the water system to identify potential problems and determine (if possible) why total coliform bacteria have been found in our water system.

Level 2 Assessment: A Level 2 assessment is a very detailed study of the water system to identify potential problems and determine (if possible) why an *E. coli* MCL violation has occurred and/or why

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.

total coliform bacteria have been found in our water system on multiple occasions.

ND: not detectable at testing limit

ppm: parts per million or milligrams per liter (mg/L)

ppb: parts per billion or micrograms per liter ($\mu\text{g/L}$)

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 byproducts 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 U.S. EPA and the State 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 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 AL, MCL, MRDL, 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 (complete if bacteria detected)	Highest No. of Detections	No. of Months in Violation	MCL	MCLG	Typical Source of Bacteria
Total Coliform Bacteria (state Total Coliform Rule)	(In a month) 0	0	1 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	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	0	Human and animal fecal waste
<i>E. coli</i> (federal Revised Total Coliform Rule)	(In the year) 0	0	(b)	0	Human and animal fecal waste

(a) Two or more positive monthly samples is a violation of the MCL

(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 (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	No. of Schools Requesting Lead Sampling	Typical Source of Contaminant
Lead (ppb)	5/11 to 5/31/19	20	5.0	1	15	0.2	1	Internal corrosion of household water plumbing systems; discharges from industrial manufacturers; erosion of natural deposits
Copper (ppm)	5/11 to 5/31/19	20	.11	0	1.3	0.3	Not applicable	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)	11/7/19	Average = 21.7	19 - 24	None	None	Salt present in the water and is generally naturally occurring
Hardness (ppm)	11/7/19	Average = 29	21 - 41	None	None	Sum of polyvalent cations present in the water, generally magnesium and calcium, and are usually naturally occurring

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]	PHG (MCLG) [MRDLG]	Typical Source of Contaminant
Aluminum	11/7/19	33	N/D - 100	1000	.6	Erosion of natural deposits
Antimony	11/7/19	N/D		6	1	Discharge from petroleum refineries
Arsenic	11/7/19	N/D		10	.004	Erosion of natural deposits, runoff from orchards
Barium	11/7/19	N/D		1	2	Erosion of natural deposits
Beryllium	11/7/19	N/D		4	1	Discharge from metal refineries, coal-burning factories
Cadmium	11/7/19	N/D		.50	.04	Corrosion from Galvanized Pipes, erosion of natural deposits
Chromium	11/7/19	N/D		50	(100)	Erosion of natural deposits
Copper	11/7/19	N/D		AL = 1.3	0.3	Erosion of natural deposits, leaching from wood preservatives.
Fluoride	11/7/19	.11	ND to .13	2	1	Erosion of natural deposits
Mercury	11/7/19	N/D		2	1	Erosion of natural deposits
Nickel	11/7/19	N/D		100	12	Erosion of natural deposits
Nitrate as N	11/7/19	N/D		10	10	Leaching from septic and sewage, erosion of natural deposits
Perchlorate	11/7/19	N/D		6	4	Byproduct of rocket propellant and explosives
Selenium	11/7/19	N/D		50	30	Discharge from glass, petroleum and metal refineries, erosion of natural deposits.
Thallium	11/7/19	N/D		2	.1	Leaching from ore-processing sites, discharge from electronics, glass and drug factories

TABLE 5 – DETECTION OF CONTAMINANTS WITH A SECONDARY DRINKING WATER STANDARD

Chemical or Constituent (and reporting units)	Sample Date	Level Detected	Range of Detections	SMCL	PHG (MCLG)	Typical Source of Contaminant
Aluminum	11/7/19	N/D		200		Erosion of natural deposits
Color	11/7/19	Average = 13.3	10 – 15	15	N/A	Naturally occurring organic materials
Copper	11/7/19	N/D		1.0		Erosion of natural deposits, leaching from wood preservatives.
MBAS	11/7/19	N/D		500		Municipal and Industrial Waste Discharge
Iron	11/7/19	Average 103.3	100-110	300	100	Leaching from natural deposits

Contaminant	Sample Date	Level Detected	Range of Detection	Notification Level	Health Effects Language	
Manganese	11/7/19	N/D		50	Leaching from natural deposits	
Odor	11/7/19	1		3	Naturally occurring organic materials	
Silver	11/7/19	N/D		100	Industrial discharges	
Turbidity	11/7/19	Average = .66		5	Soil runoff	
Calcium (ppm)	11/7/19	Average = 5.6	3.7 – 9.0	N/A	N/A	Runoff/leaching of natural deposits
Zinc	11/7/19	N/D		5.0	N/A	Runoff/leaching of natural deposits
Total Dissolved Solids	11/7/19	Average = 126.7	120 -140	1600		Runoff/leaching of natural deposits
Specific Conductance (umhos/cm)	11/7/19	Average = 200	180 – 210	1600	N/A	Substances that form ions when in water
Chloride	11/7/19	Average = 31.3	24 – 32	500		N/A
Sulfate (ppm)	11/7/19	Average = 21.4	8.1 – 44	500	N/A	Runoff/leaching of natural deposits
pH (units)	11/7/19	Average = 6.9	6.86 – 7.07	6.5 – 8.5	N/A	
Bicarbonate (ppm)	11/7/19	Average = 15.6	9.9 - 22	N/A	N/A	Runoff/leaching of natural deposits
Magnesium	11/7/19	Average = 3.7	2.9 – 4.6	N/A	N/A	Runoff/leaching of natural deposits

TABLE 6 – DETECTION OF UNREGULATED CONTAMINANTS

Chemical or Constituent (and reporting units)	Sample Date	Level Detected	Range of Detection	Notification Level	Health Effects Language
Total Organic Carbon	Quarterly	AVG 2.14	.99-3.36	NA	NA

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 (1-800-426-4791).

Lead-Specific Language: 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. Inverness Public Utility District 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 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 (1-800-426-4791) 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 <u>1.0</u> NTU in 95% of measurements in a month. 2 – Not exceed <u>1.0</u> NTU for more than eight consecutive hours. 3 – Not exceed <u>1.0</u> NTU at any time.
Lowest monthly percentage of samples that met Turbidity Performance Standard No. 1.	100%
Highest single turbidity measurement during the year	0.90
Number of violations of any surface water treatment requirements	None

(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.

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
0				

