

2022 Consumer Confidence Report

Water System Name:	McKinleyville Community Services District (MCSD)	Report Date:	4/13/2023
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The District tests 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, 2022 and may include earlier monitoring data. Last year, as in years past, your tap water met all United State Environmental Protection Agency (USEPA) and State drinking water health standards. MCSD vigilantly safeguards its water infrastructure and once again, we are proud to report that our system did not violate a maximum contaminant level or any other water quality standard in 2022.

Este informe contiene información muy importante sobre su agua para beber. Favor de comunicarse McKinleyville Community Services District a 1656 Sutter Road McKinleyville, Ca. 95519 (707) 839-3251 para asistirlo en español.

Type of water source(s) in use:	Drinking water delivered by the McKinleyville Community Services District (MCSD) is supplied by the Humboldt Bay Municipal Water District (HBMWD). The District's source water has been classified by the State Water Resources Control Board (SWRCB) as groundwater <u>not</u> under the direct influence of surface water. The classification is important with respect to the regulations that a water system must follow to ensure water quality.
Name & general location of source(s):	<p>The Humboldt Bay Municipal Water District is a regional water wholesaler that supplies the drinking water to MCSD. Drinking water delivered to the District is drawn from wells below the bed of the Mad River northeast of Arcata. This water-bearing ground below the river is called an aquifer. These wells, called Ranney Wells, draw water from the sands and gravel of the aquifer at depths of 60 to 90 feet, thereby providing a natural filtration process. During the summer, this naturally filtered water is disinfected via chlorination and delivered to the District.</p> <p>During the winter, it is further treated at a regional Turbidity Reduction Facility which reduces the occasional turbidity (cloudiness) in the District's source water. While turbidity itself is not a health concern, SWRCB is concerned that at elevated levels, turbidity could potentially interfere with the disinfection process.</p>

Drinking Water Source Assessment information:	<p>HBMWD performed a Drinking Water Source Assessment that was conducted by the Department of Health Services in August 2002. A copy of this assessment can be obtained at their District office at 828 7th Street Eureka, CA. This assessment found that the source water of the Ranney Wells may be vulnerable to activities that contribute to the release of aluminum and barium. Aluminum is associated with some surface water treatment processes and erosion of natural deposits. Barium is associated with the discharges of oil drilling waste or metal refineries and erosion of natural deposits.</p> <p>HBMWD treats its water and performs annual monitoring and testing, in accordance with SWRCB regulations and requirements, to ensure its water is safe to drink.</p> <p>MCSD performs separate monitoring and testing, in accordance with the USEPA and the State Board regulations and requirements, to ensure that the water quality remains high within the MCSD storage and distribution systems. The results from both the HBMWD's and the MCSD's 2022 monitoring and testing programs indicate that our water quality is very high, as has consistently been the case in past years.</p> <p>The tables below list the drinking water contaminants detected during 2022. A detected contaminant is any contaminant detected at or above its Detection Limit for Purposes of Reporting (DLR) (limit is established by SWRCB) or for unregulated contaminants, the Minimum Reporting Level (MRL). The tables show the level of detected contaminants. Contaminants that are not detected, or are detected below the DLR or MRL, are not required to be reported. The tables also show the maximum contaminant levels (MCL) and public health goals (PHG). Definitions for terms used in this report are listed on the next page.</p>
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Time and place of regularly scheduled board meetings for public participation:	First Wednesday of each month at 6:00 p.m. at Azalea Hall, 1620 Pickett Road, McKinleyville, Ca. 95519. Board meeting will be held via Zoom and in-person meetings during the regular scheduled meeting time.
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For more information, contact:	Patrick Kaspari, General Manager	Phone:	(707) 839-3251
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Definitions of Terms Used in This Report:

You will find many terms and abbreviations in the table below. To help you understand these terms, the following definitions are provided:

- **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 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.
- **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 cover the aesthetic quality of the water such as odor, taste and appearance.
- **Primary Drinking Water Standard (PDWS):** MCLs for contaminants that affect health along with monitoring, reporting requirements and water treatment requirements.
- **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.
- **Regulatory Action Level (RAL):** The concentration of a contaminant which, when exceeded, triggers treatment or other requirements that a water system must follow.
- **Treatment Technique (TT):** A Required process intended to reduce the level of a contaminant in drinking water.
- **Variances and Exemptions:** State Board permission to exceed an MCL or not comply with a treatment technique under certain conditions.
- **n/a:** not applicable
- **ND:** not detectable at testing limit
- **ppb:** parts per billion or micrograms per liter ($\mu\text{g/L}$)
- **ppm:** parts per million or milligrams per liter (mg/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**)
- **mgCaCO_3/L :** milligrams of calcium carbonate per liter (**a measure of hardness**)
- **microseimens/cm :** a measure of specific conductance ($\mu\text{S/cm}$)
- **NTU:** Nephelometric Turbidity Units
- **Detection Limit for Purposes of Reporting (DLR):** The DLR is a parameter that is set by state regulation for each reportable contaminant. The presence of these contaminants in the drinking water at its DLR does not necessarily indicate that the water poses a health risk and can be below its MCL.
- **Minimum Reporting Level (MRL):** The MRL is defined by the USGS National Water Quality Laboratory as the smallest measured concentration of a substance that can be reliably measured by using a given analytical method.
- **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.

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 human activity. Contaminants that may be present in source water include:

- Microbial contaminants, such as viruses and bacteria, which 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.
- Radioactive contaminants that can be naturally-occurring or be the result of oil and gas production and mining activities.
- 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 storm water runoff, agriculture application, and septic systems.

Water Quality Testing Results

In order to ensure that tap water is safe to drink, the U.S. Environmental Protection Agency and the State Water Resources Control Board (State Board) prescribes regulations which limit the amount of certain contaminants in water provided by public water systems. State Board regulations also established limits for contaminants in bottled water that provide the same protection for public health. The MCSD testing for Fecal Coliform produced zero results. Test results for disinfection byproducts have been below the Maximum Contaminant Level (MCL).

The tables enclosed in the newsletter list all the drinking water contaminants that were monitored during 2022. Additionally, the State requires that both Districts 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. Therefore, results from prior years are included if such a contaminant was detected. There are very few entries in the tables because very few contaminants were detected in prior years. It is once again important to note that the presence of these contaminants does not necessarily indicate that the water poses a health risk.

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 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, persons 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 and the Center for Disease Control (CDC) guidelines on appropriate means to lessen the risk of infection by cryptosporidium and other microbial contaminants are available from the USEPA's Safe Drinking Water Hotline (1-800-426-4791)

HBMWD consistently and frequently monitors for the presence of giardia and cryptosporidium in its drinking water. Since the mid-1990s, when the EPA approved the testing technique for these contaminants, HBMWD has never had a confirmed detection of either contaminant.

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. MCSD 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>).

McKinleyville Community Services District 2022 Consumer Confidence Report

Humboldt Bay Municipal Water District Testing: RAW SOURCE WATER

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)	1	0	Two or more positive monthly sample	0	Naturally present in the environment
Fecal Coliform or <i>E. coli</i> (state Total Coliform Rule)	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)	0	0	(a)	0	Human and animal fecal waste

(a) 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	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)	2020	10	.12	0	15	0.2	0	Internal corrosion of household water plumbing systems; discharges from industrial manufacturers; erosion of natural deposits
Copper (ppm)	2020	10	.96	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)	2016	3.7	N/A	None	None	Salt present in the water and is generally naturally occurring
Hardness (ppm)	2016	87	N/A	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
TTHM (µg/L) (Total Trihalomethanes)	2022	9.8	N/A	80	N/A	Byproduct of drinking water disinfection
HAA5 (µg/L) (Haloacetic Acids)	2022	4	N/A	60	N/A	Byproduct of drinking water disinfection
Chlorine (mg/L)	2022	Average=0.65	.49-.91	[MRDL = 4.0 (as Cl ₂)]	[MRDLG = 4.0 (as Cl ₂)]	Drinking water disinfectant added for treatment
Turbidity (NTU)	2022	.25	.04-.25	TT = 5.0 NTU	N/A	Soil runoff. High Turbidity can hinder the effectiveness of disinfectants. During the winter season, it is a good indicator of the effectiveness of the filtration system

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
Chloride (mg/L)	2016	3.9	N/A	500	N/A	Runoff/leaching from natural deposits; seawater influence
Color (units)	2016	5.0	N/A	15	N/A	Naturally-occurring organic materials
Specific Conductance (µS/cm)	2018	130	N/A	1,600	N/A	Substances that form ions when in water
Sulfate (mg/L)	2016	10.0	N/A	500	N/A	Runoff/leaching from natural deposits; industrial wastes
Total Dissolved Solids (mg/L)	2016	90	N/A	1,000	N/A	Runoff/leaching from natural deposits
Turbidity (NTU)	2022	.25	.04-.25	5	N/A	Soil runoff. High Turbidity can hinder the effectiveness of disinfectants. During the winter season, it is a good indicator of the effectiveness of the filtration system

TABLE 6 – DETECTION OF UNREGULATED CONTAMINANTS

Chemical or Constituent (and reporting units)	Sample Date	Level Detected	Range of Detections	Notification Level	Health Effects Language
Total Alkalinity (mg/L)	2016	65	N/A	N/A	There are no health concerns related to alkalinity

Unregulated Contaminant Monitoring Rule (UCMR) –Testing Results

As part of the federal drinking water program, USEPA issues a list of currently unregulated contaminants to be tested by Public Water Systems throughout the nation. This process occurs every five years pursuant to the Unregulated Contaminant Monitoring Rule (UCMR). The purpose of the UCMR program is to determine the prevalence of unregulated contaminants in drinking water. Results of this testing help USEPA determine whether or not to regulate new contaminants for protection of public health.

There have been four cycles of monitoring: UCMR 1 (2001-2003), UCMR 2 (2008-2010), UCMR 3 (2013-2015), and UCMR 4 (2018-2020). UCMR 1 through UCMR 3 tested for a total of 65 constituents. The UCMR 4 consists of testing for 10 cyanotoxins, 20 additional contaminants, and 2 indicators. Below are the constituents within the previous five years that were detected above the minimum reporting level in the most recent tests. Information on the potential health effects are also included.

Chemical or Constituent (and reporting units)	Sample Date	Level Detected	Range of Detections	Notification Level	Health Effects Language
HAA5 (µg/L) [Sum of 5 Haloacetic Acids]	2022	4	N/A	60 µg/L	Some people who drink water containing haloacetic acids in excess of the MCL over many years may have an increased risk of getting cancer.
HAA6 (µg/L) [Sum of 6 Haloacetic Acids]	2019	1.91	N/A	N/A	Some people who drink water containing haloacetic acids in excess over many years may have an increased risk of getting cancer.
HAA9 (µg/L) [Sum of 9 Haloacetic Acids]	2019	13.11	N/A	N/A	Some people who drink water containing haloacetic acids in excess over many years may have an increased risk of getting cancer.
Total Organic Carbon (µg/L)	2019	1100	1000	N/A	Indicator of the potential to form haloacetic acids during water treatment. Total Organic Carbon has no known health effect.

McKinleyville Community Services District

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	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	(a)	0	Human and animal fecal waste

(a) 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 (µg/L)	2019	30	1.2	0	15	0.2	A total of 4 Schools were tested for lead. Up to 3 samples collected per school	Internal corrosion of household water plumbing systems; discharges from industrial manufacturers; erosion of natural deposits
Copper (µg/L)	2019	30	0.650	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)	2007	3.7	N/A	None	None	Salt present in the water and is generally naturally occurring
Hardness (ppm)	2005	67	57-80	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 (Average)	Range of Detections	MCL [MRDL]	PHG (MCLG) [MRDLG]	Typical Source of Contaminant
TTHMs (µg/L) – (Total Trihalomethanes)	2022	16.5	0-33	80	N/A	Byproduct of drinking water disinfection
HAA5 (µg/L) (Haloacetic Acids)	2022	7.5	0-14	60	N/A	Byproduct of drinking water disinfection
Chlorine (mg/L)	2022	Average=0.59	0.30-1.00	[MRDL = 4.0 (as Cl ₂)]	[MRDLG = 4.0 (as Cl ₂)]	Drinking water disinfectant added for treatment
Asbestos	2019	ND	ND	7	7	Some people who drink water containing asbestos in excess of the MCL over many years may have an increased risk of developing benign intestinal polyps.

Unregulated Contaminant Monitoring Rule (UCMR) 4 – 2019 Testing Results

As part of the federal drinking water program, USEPA issues a list of currently unregulated contaminants to be tested by Public Water Systems throughout the nation. This process occurs every five years pursuant the Unregulated Contaminant Monitoring Rule (UCMR). The purpose of the UCMR program is to determine the prevalence of unregulated contaminants in drinking water. Results of this testing help USEPA determine whether or not to regulate new contaminants for protection of public health.

The District participated in the current UCMR 4 testing in 2019. The UCMR 4 consists of testing for 20 additional contaminants, and 2 indicators. Below are the constituents within the previous five years that were detected above the minimum reporting level in the most recent tests. Information on the potential health effects are also included.

DETECTION OF UNREGULATED CONTAMINANTS

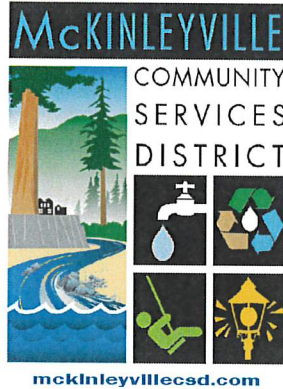
Chemical or Constituent (and reporting units)	Sample Date	Level Detected	Range of Detections	Notification Level	Health Effects Language
HAA6 (µg/L) [Sum of 6 Haloacetic Acids]	2019	4.84	0-4.84	N/A	Some people who drink water containing haloacetic acids in excess over many years may have an increased risk of getting cancer.
HAA9 (µg/L) [Sum of 9 Haloacetic Acids]	2019	8.92	0-8.92	N/A	Some people who drink water containing haloacetic acids in excess over many years may have an increased risk of getting cancer.
Manganese, Total (µg/L)	2019	0.44	0.44	500	Manganese exposures resulted in neurological effects. High levels of manganese in people have been shown to result in adverse effects to the nervous system.

PHYSICAL ADDRESS:

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MAIN OFFICE:

PHONE: (707) 839-3251
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FAX: (707) 839-5964

Scott Gilbreath

June 15, 2023

State Water Resources Control Board
Division of Drinking Water
415 Knollcrest Drive; Suite 110
Redding, CA 96002

Dear Scott,

Enclosed is a copy of McKinleyville Community Services District's 2022 Consumer Confidence Report, in accordance with the Federal Safe Drinking Water Act, as approved by the Board of Directors at their meeting on May 3rd. Also enclosed is an executed form acknowledging that the District has distributed the Report to all MCSD customers.

Please contact me if I can answer any additional questions or if there is more, I should do in this regard. Thanks for your assistance.

Sincerely,

A handwritten signature in blue ink that reads "James Henry".

James Henry, Operations Director

I, Lesley Frisbee, hereby declare and state: I am over the age of 18, employed by the McKinleyville Community Services District, in the County of Humboldt, State of California. My business address is 1656 Sutter Rd McKinleyville, CA 95519.

In June 2023 I served the within newsletter incorporating the 2022 MCSD Consumer Confidence Report by placing a true copy thereof postage-paid in the U.S. Mail addressed to each MCSD customer.

I declare under the penalty of perjury that the foregoing is true and correct.

Signed,

A handwritten signature in blue ink, appearing to read 'Lesley Frisbee', with a stylized, cursive script.

Lesley Frisbee, Recreations Director

Executed on June 15, 2023 at McKinleyville, California