

2021 Consumer Confidence Report

Water System Information

Water System Name: **Seeley County Water District**

Report Date: **06/20/2022**

Type of Water Source(s) in Use: **Surface water**

Name and General Location of Source(s): **Imperial Irrigation District – Elder Canal gate 94D**

Drinking Water Source Assessment Information: **Previously, a Watershed Sanitary Survey of the IID's Central Main Canal was completed in September 2014 and a new WSS was conducted in mid – late 2020. A copy of the complete 2014 assessment is available at the State Water Resources Control Board, Division of Drinking Water at 1340 Front Street Room 2050, San Diego, CA 92101. Phone: (619) 525-4159 Fax: (619) 525-4383. Information regarding the 2020 WSS is pending**

Time and Place of Regularly Scheduled Board Meetings for Public Participation: **Board Meetings are held at 6:00 pm on the third Monday of every month at the Seeley County Water District office located at 1898 W. Main Street Seeley, Ca. 92273**

For More Information, Contact: **Plant Supervisor Amado Ramirez at (760)332-9059**

About This Report

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, 2021 and may include earlier monitoring data.

Este informe contiene información muy importante sobre su agua para beber. Favor de comunicarse Seeley County Water District a 1898 W. Main Street o a (760)332-9059 para asistirlo en español.

Terms Used in This Report

Term	Definition
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 <i>E. coli</i> MCL violation has occurred and/or why total coliform bacteria have been found in our water system on multiple occasions.
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

Term	Definition
	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).
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.
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.
Regulatory Action Level (AL)	The concentration of a contaminant which, if exceeded, triggers treatment or other requirements that a water system must follow.
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.
Variances 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.
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)

Sources of Drinking Water and Contaminants that May Be Present in Source Water

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.

Regulation of Drinking Water and Bottled Water Quality

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.

About Your Drinking Water Quality

Drinking Water Contaminants Detected

Tables 1, 2, 3, 4, 5, 6, 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. 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	Highest No. of Detections	No. of Months in Violation	MCL	MCLG	Typical Source of Bacteria
<i>E. coli</i>	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 1.A. Compliance with Total Coliform MCL between January 1, 2021 and June 30, 2021 (inclusive)

Microbiological Contaminants	Highest No. of Detections	No. of Months in Violation	MCL	MCLG	Typical Source of Bacteria
Total Coliform Bacteria	0	0	1 positive monthly sample (a)	0	Naturally present in the environment
Fecal Coliform and <i>E. coli</i>	0	0	0	None	Human and animal fecal waste

(a) For systems collecting fewer than 40 samples per month: two or more positively monthly samples is a violation of the total coliform MCL

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) Treated Water	9/28/2021	10	ND	0	15	0.2	0	Internal corrosion of household water plumbing systems; discharges from industrial manufacturers; erosion of natural deposits
Copper (ppm) Treated Water	9/28/2021	10	ND	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) Source Water	02/25/2021	110	110	None	None	Salt present in the water and is generally naturally occurring
Hardness (ppm) Source Water	02/25/2021	350	350	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 (ppm) Source Water	02/25/2021	0.24	NA	1	0.6	Erosion of natural deposits; residue from some surface water treatment processes
Aluminum (ppm) Treated Water	2021	ND	ND – 0.06	1	0.6	Erosion of natural deposits; residue from some surface water treatment processes
Barium (ppm) Source Water	02/25/2021	0.11	NA	1	2	Discharge of oil drilling wastes and from metal refineries; erosion of natural deposits
Chlorine (ppm) Treated Water	2021	1.08	1.04 – 1.08	[MRDL = 4 ppm (as Cl ₂)]	[MRDLG = 4 ppm (as Cl ₂)]	Drinking water disinfectant added for treatment
Fluoride (ppm) Source Water	02/25/2021	0.40	NA	2	1	Erosion of natural deposits; water additive which promotes strong teeth; discharge from fertilizer and aluminum factories
HAA5 (ppb) Treated Water	2021	41 Highest LRAA	34 - 49	60	NA	Byproduct of drinking water disinfection
TTHMs (ppb) Treated Water	2021	62 Highest LRAA	38 – 86	80	NA	Byproduct of drinking water disinfection

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 (ppb) Treated Water	2021	ND	ND – 61	200	NA	Erosion of natural deposits; residual from some surface water treatment processes
Apparent Color (Color Units) Source Water	02/25/2021	10.0	NA	15	NA	Naturally occurring organic materials
Chloride (ppm) Source Water	02/25/2021	110	NA	500	NA	Runoff/leaching from natural deposits; seawater influence
Iron (ppb) Source Water	02/25/2021	250	NA	300	NA	Leaching from natural deposits; industrial wastes
Odor Threshold (TON Units) Source Water	02/25/2021	1	NA	3	NA	Naturally occurring organic materials
Sulfate (ppm) Source Water	02/25/2021	240	NA	500	NA	Runoff/leaching from natural deposits; industrial wastes
Total Dissolved Solids (ppm) Source Water	02/25/2021	640	NA	1000	NA	Runoff/leaching from natural deposits

Table 6. Detection of Unregulated Contaminants

Chemical or Constituent (and reporting units)	Sample Date	Level Detected	Range of Detections	Notification Level	Health Effects
Boron (ppb) Source Water	02/25/2021	0.16	NA	1	Boron exposures resulted in decreased fetal weight (developmental effects) in newborn rats
Vanadium (ppm) Source Water	02/25/2021	0.0031	NA	0.05	Vanadium exposures resulted in developmental and reproductive effects in rats.

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).

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. Seeley County Water 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. [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 (1-800-426-4791) or at <http://www.epa.gov/lead>.

State Revised Total Coliform Rule (RTCR): E. Coli was detected in source water samples taken from our raw water reservoirs and the Elder Canal that serves our facility. Although E. Coli was present in the raw water samples, please note that our treated water did not test positive for Total Coliform or E. Coli contamination.

Summary Information for Violation of a MCL, MRDL, AL, TT, or Monitoring and Reporting Requirement

Table 7. Violation of a MCL, MRDL, AL, TT or Monitoring Reporting Requirement

Violation	Explanation	Duration	Actions Taken to Correct Violation	Health Effects Language
Treatment Technique	In August 2021 there were several incidents when CFE or IFE was greater than the maximum allowed turbidity of 0.30 NTU	August 2021	The instrumentation used to monitor filter turbidity failed; with a combination of no readings or spikes exceeding maximum turbidity. The failed instrumentation was replaced at the end of August 2021 and average NTUs dropped back down to 0.10 NTU	Turbidity (measured in NTU) is a measurement of the cloudiness of water and is a good indicator of water quality and filtration performance.
Filter Monitoring and Reporting Violations	Seeley failed to conduct continuous filter effluent turbidity monitoring or collect 4-hour turbidity grab samples during the month of August 2021.	August 2021	The instrumentation used to monitor filter turbidity failed. The failed equipment was replaced at the end of August 2021. The associated computer hardware programming failure was resolved in February 2022.	Turbidity (measured in NTU) is a measurement of the cloudiness of water and is a good indicator of water quality and filtration performance.

For Systems Providing Surface Water as a Source of Drinking Water

Table 10. Sampling Results Showing Treatment of Surface Water Sources

Treatment Technique ^(a) (Type of approved filtration technology used)	Alternative Filtration Technology
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 0.30 NTU in 95% of measurements in a month. 2 – Not exceed 1.0 NTU for more than eight consecutive hours. 3 – Not exceed 1.49 NTU at any time.
Lowest monthly percentage of samples that met Turbidity Performance Standard No. 1.	93.9%
Highest single turbidity measurement during the year	0.995
Number of violations of any surface water treatment requirements	2

(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

Table 11. Violation of Surface Water TT

Violation	Explanation	Duration	Actions Taken to Correct Violation	Health Effects Language
Treatment Technique	In August 2021 there were several incidents when CFE or IFE was greater than the maximum allowed turbidity of 0.30 NTU	August 2021	The instrumentation used to monitor filter turbidity failed; with a combination of no readings or spikes exceeding maximum turbidity. The failed instrumentation was replaced at the end of August 2021 and average NTUs dropped back down to 0.10 NTU	Turbidity (measured in NTU) is a measurement of the cloudiness of water and is a good indicator of water quality and filtration performance.
Filter Monitoring and Reporting Violations	Seeley failed to conduct continuous filter effluent turbidity monitoring or collect 4-hour turbidity grab samples during the month of August 2021.	August 2021	The instrumentation used to monitor filter turbidity failed. The failed equipment was replaced at the end of August 2021. The associated computer hardware programming failure was resolved in February 2022.	Turbidity (measured in NTU) is a measurement of the cloudiness of water and is a good indicator of water quality and filtration performance.