

**2024**



## **CONSUMER CONFIDENCE/ WATER QUALITY REPORT**



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# Delivering Excellence, One Drop at a Time

## About Us

Soquel Creek Water District (District) is a not-for-profit public agency committed to delivering a safe, high-quality, reliable, and sustainable water supply. We serve the needs of our community—both now and into the future—with environmental sensitivity and fiscal responsibility.

Our service area spans a seven-mile stretch of the California coastline in Santa Cruz County, reaching one to three miles inland into the foothills. We provide water to parts of the City of Capitola and the communities of Aptos, La Selva Beach, Soquel, Rio Del Mar, Seascapes, and Opal Cliffs.

The District serves more than 40,000 residents and supports approximately 18,000 local jobs. Our region includes 22 parks and 18 schools. Our water system consists of roughly 16,000 service connections, 167 miles of pipeline, 18 storage tanks, and 15 active groundwater wells. In addition, we maintain 3 standby wells, 2 inactive wells, and 80 monitoring wells to track and manage groundwater conditions.

With a dedicated team of 48 employees, Soquel Creek Water District works around the clock—24 hours a day, 7 days a week, 365 days a year—to ensure a consistent supply of clean and safe water for the people and communities we proudly serve.



## Report Information

The annual Consumer Confidence/Water Quality Report reflects the hard work and investment by the Soquel Creek Water District to provide high-quality drinking water to its customers. The District's water meets all U.S. Environmental Protection Agency (USEPA) and California State Water Resources Control Board, Division of Drinking Water (State Board) drinking water health standards.

Included in this report are details about where District water comes from, what it contains, and how it is treated and tested to ensure customers receive high quality drinking water. We are committed to providing customers with accurate information about their drinking water quality.

If you have questions about this report, please contact our Water Quality Compliance Coordinator Cara Clark at 831-475-8500 or by email at [carac@soquelcreekwater.org](mailto:carac@soquelcreekwater.org).

***Información muy importante: este informe contiene información muy importante sobre su agua potable. Tradúzcalo o hable con alguien que lo entienda bien.***

# Water Supply

## Where Your Water Comes From

All of our water is pumped from the Santa Cruz Mid-County Groundwater Basin. In 2024, the District pumped water from 15 wells situated within the basin.

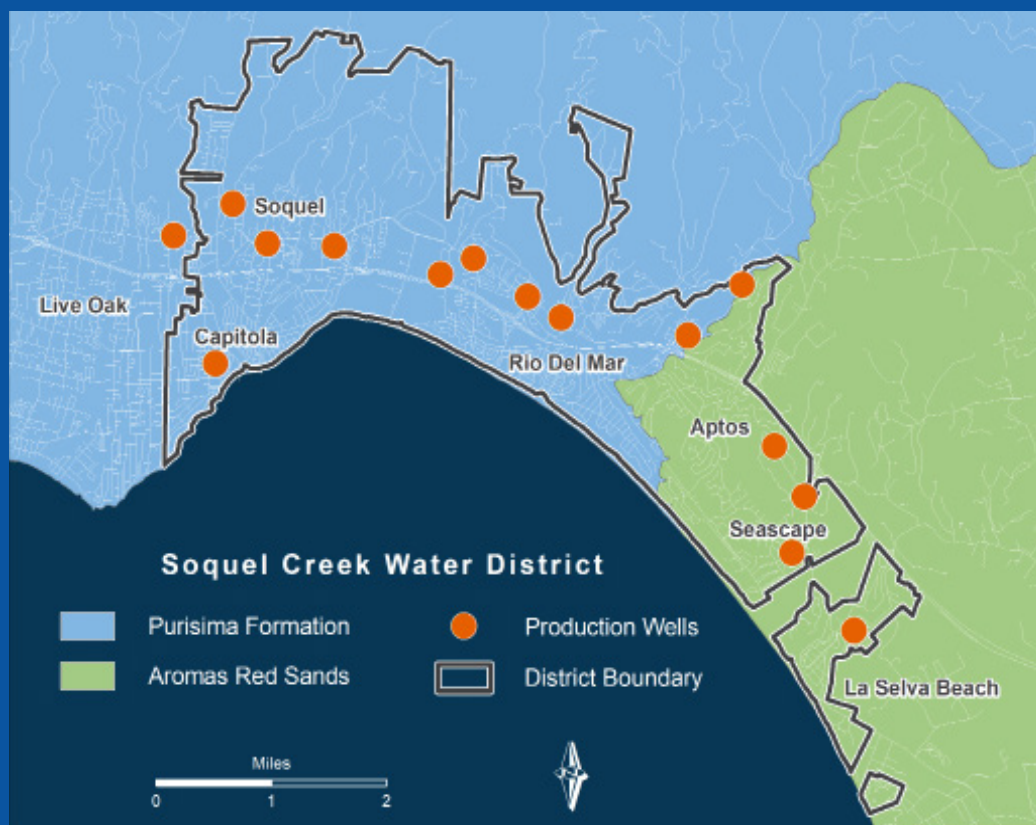
This basin is composed of two aquifers: the Purisima Formation and the Aromas Red Sands.

Aquifers are layers and areas of rocks below ground where all the cracks, crevices, and spaces between rock particles are full of water. Groundwater wells pump water from the most permeable layers of the aquifer — areas where water can flow easily from spaces into the well pipe — to the surface. The groundwater is then treated and served to customers through the distribution system pipes, ultimately reaching customers' taps.

The Purisima Formation is naturally high in iron and manganese, and the water supplied from these aquifers is treated using oxidation and filtration to reduce these elements.

Water from both the Purisima Formation and the Aromas Red Sands aquifers meets all current drinking water health standards. To learn more about groundwater, watch the following video at [vimeo.com/180918902](https://vimeo.com/180918902)





Map of the District Service Area

## Source Water Assessments

In 2015, the District updated its 2002 source water assessments of 14 of its wells. Initial source water assessments for four additional wells were completed in 2011, 2014 and 2019. These assessments identify activities that could potentially contaminate a drinking water well.

### Aromas Red Sands

The Aromas Red Sands Aquifer water is considered to be the most vulnerable to on-site residential septic systems and potential leakage from sewer lines. Some of these wells are also vulnerable to contamination from nearby parks, a nearby golf course, irrigated crops, fertilizer/pesticide/herbicide applications, high density housing, transportation corridors, other supply wells, and/or chemicals used at the drinking water treatment plants.

### Purisima Formation

The Purisima Formation water is considered to be the most vulnerable to contamination from dry cleaners, historic and active automobile gas stations and repair shops, sewer collection systems, photo processing/printing establishments, high density housing, septic systems, transportation corridors, parking lots, other supply wells, utility stations/maintenance areas, decommissioned underground storage tanks, historic lumberyards, railroad facilities, historic apple processing, and a construction/demolition and staging area.

The drinking water source assessment summaries are available on the District's website [soquelcreekwater.org/waterqualityreport](https://soquelcreekwater.org/waterqualityreport).

# Water Quality

## Regulations

In order to ensure that tap water is safe to drink, the U.S. Environmental Protection Agency (USEPA) and the State Water Resources Control Board (State Board) prescribe regulations that limit the amount of certain contaminants in water provided by public water systems. The State Board's Division of Drinking Water (DDW) ensures these standards are met.

The U.S. Food and Drug Administration (USFDA) regulations and California law also establish limits for contaminants in bottled water that provide the same protection for public health. Additional information on bottled water is available on the California Department of Public Health website:

<https://tinyurl.com/cawatersafety>

## Source Water Quality

Sources of drinking water (both tap 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 by-products 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 or gas production and mining activities.





## Health Information

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).

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).

The presence and levels of constituents varies throughout the District. If you have questions, suggestions, or comments regarding this report or questions regarding the specific water quality for your neighborhood,

please contact Cara Clark, Water Quality Compliance Program Coordinator, at [carac@soquelcreekwater.org](mailto:carac@soquelcreekwater.org).

## Lead

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. The 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 two 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 (1-800-426-4791) or at <https://tinyurl.com/epaleadwebsite>

**In accordance with the U.S. EPA's Lead and Copper Rule, Soquel Creek Water District has prepared a Lead Service Line inventory and classified all District-owned and customer-owned service lines as non-lead.** See the Notification of LSLI completion for more details at [soquelcreekwater.org/Water-Quality-Report](https://soquelcreekwater.org/Water-Quality-Report).

## Lead Testing in Schools

The State Water Board, through the DDW, in collaboration with the California Department of Education, requires testing for lead in drinking water at all public K-12 schools. In early 2017, DDW issued amendments to the domestic water supply permits of community water systems so that schools that are served by a public water system could request assistance from their public water system to conduct water sampling for lead and receive technical assistance if an elevated lead sample is found. To further safeguard water quality in California's K-12 public schools, California Assembly Bill 746 (AB 746), effective January 1, 2018, required community water system to test lead levels, by July 1, 2019, in drinking water at all California public, K-12 school sites that were constructed before January 1, 2010, and preschools and child day care facilities located on public school property.

The District completed water sampling and testing for lead at fifteen schools. For more information about the Lead Sampling of Drinking Water in California Schools Program, visit: <https://tinyurl.com/leadtestinginschools>

## Regular Water Quality Testing

Soquel Creek Water District regularly tests your drinking water using DDW-approved methods to ensure its safety.

During the past year, the District tested for 106 constituents. All test samples are collected and reported in accordance with standards and requirements established by the USEPA and the State Water Board. These test results reflect all of our groundwater and distribution system water. Only those regulated constituents that had detected levels are shown. **All tests showed compliance with State and Federal Drinking Water Standards.**



## What Quality Standards and Goals

Drinking Water Standards established by USEPA and the State Water Board set limits for substances that may affect consumer health or aesthetic qualities of drinking water. Water is sampled and tested throughout the year.

The Water Quality Analysis Table in this report shows the following types of water quality standards:

**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.

**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.

**Primary Drinking Water Standards:**

MCLs and MRDLs (see definitions above) for contaminants that affect health, along with their monitoring and reporting requirements and water treatment requirements.

**Secondary MCLs (SMCLs):** Are set to protect the odor, taste and appearance of 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.

In addition to mandatory water quality standards, USEPA and DDW have set voluntary water quality goals for some contaminants. Water quality goals are often set at such low levels that they are not achievable in practice and are not directly measurable. Nevertheless, these goals provide useful guideposts and direction for water management practices.

The Water Quality Analysis Table includes three types of water quality goals:

**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 USEPA.

**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.

**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 Office of Environmental Health Hazard Assessment (OEHHA).





## How are Constituents Measured?

Constituents are measured and reported in extremely small quantities such as parts per million, parts per billion, and in some cases, parts per trillion. These comparisons help explain the measurements:

### Milligrams per liter (mg/L) or parts per million (ppm)

1 drop in 14 gallons



### Micrograms per liter (ug/L) or parts per billion (ppb)

1 drop in 14,000 gallons



### Nanograms per liter (ng/L) or parts per trillion (ppt)

1 drop in 14,000,000 gallons



# 2024 Water Quality Analysis Table

This table lists all of the drinking water constituents detected between January 1– December 31, 2024. The District water quality met or surpassed all State and Federal criteria for public health protection.

| PRIMARY HEALTH STANDARDS                                      | MCL or [MRDL]     | PHG, (MCLG) or [MRDLG] | Year Tested | Range of Detections | Average Amount | Typical Sources of Constituent                                                                                                |
|---------------------------------------------------------------|-------------------|------------------------|-------------|---------------------|----------------|-------------------------------------------------------------------------------------------------------------------------------|
| <b>Disinfection Byproducts (DBPs)<sup>1a</sup></b>            |                   |                        |             |                     |                |                                                                                                                               |
| Total Trihalomethanes - TTHMs (ug/L)                          | 80                | N/A                    | 2024        | 5 – 50              | 42             | By-product of drinking water disinfection                                                                                     |
| Haloacetic Acids - HAA5 (ug/L)                                | 60                | N/A                    | 2024        | ND – 10             | 9              | By-product of drinking water disinfection                                                                                     |
| <b>Disinfectant Residual<sup>1b</sup></b>                     |                   |                        |             |                     |                |                                                                                                                               |
| Chlorine Residual (mg/L)                                      | [4.0]             | [4.0]                  | 2024        | 0.21 – 1.52         | 0.78           | Drinking water disinfectant added for treatment                                                                               |
| <b>Inorganic Constituents</b>                                 |                   |                        |             |                     |                |                                                                                                                               |
| Arsenic (ug/L)                                                | 10                | .0004                  | 2024        | ND – 2.8            | 0.5            | Erosion of natural deposits                                                                                                   |
| Chromium [Total Cr] (ug/L)                                    | 50                | (100)                  | 2024        | ND – 14             | 6.6            | Discharge from steel and pulp mills and chrome plating; erosion of natural deposits                                           |
| Fluoride (mg/L)                                               | 2.0               | 1                      | 2024        | ND – 0.1            | 0.08           | Erosion of natural deposits                                                                                                   |
| Nitrate (as N) (mg/L)                                         | 10                | 10                     | 2024        | ND – 3.4            | 0.40           | Runoff and leaching from fertilizer use; leaching from septic tanks and sewage; erosion of natural deposits                   |
| SECONDARY AESTHETIC STANDARDS                                 | SMCL              | PHG or (MCLG)          | Year Tested | Range of Detections | Average Amount | Typical Sources of Constituent                                                                                                |
| Chloride (mg/L)                                               | 500               | N/A                    | 2024        | 18 – 59             | 30             | Runoff/leaching from natural deposits; seawater influence                                                                     |
| Color (units) <sup>2</sup>                                    | 15                | N/A                    | 2024        | 3 – 7               | 4.3            | Naturally occurring materials                                                                                                 |
| Iron (ug/L) <sup>2</sup>                                      | 300               | N/A                    | 2024        | ND – 71             | 5.7            | Leaching from natural deposits                                                                                                |
| Manganese (ug/L) <sup>2</sup>                                 | 50                | N/A                    | 2024        | ND – 18             | 0.67           | Leaching from natural deposits                                                                                                |
| pH (unitless) <sup>1c</sup>                                   | 6.5 – 8.5 (USEPA) | N/A                    | 2024        | 7.4 – 8.2           | 8              | A measure of the acidity or alkalinity                                                                                        |
| Specific Conductance (microsiemens/centimeter)                | 1,600             | N/A                    | 2024        | 351 – 645           | 492            | Substances that form ions when in water; seawater influence                                                                   |
| Sulfate (mg/L)                                                | 500               | HA = 500               | 2024        | 17 – 62             | 37             | Runoff/leaching from natural deposits                                                                                         |
| Total Dissolved Solids (TDS) (mg/L)                           | 1,000             | N/A                    | 2024        | 206 – 358           | 274            | Runoff/leaching from natural deposits                                                                                         |
| Turbidity [Nephelometric Turbidity Units (NTUs)] <sup>2</sup> | 5                 | N/A                    | 2024        | ND – 1              | 0.2            | Runoff/leaching from natural deposits                                                                                         |
| OTHER MONITORING RESULTS                                      | MCL               | PHG or (MCLG)          | Year Tested | Range of Detections | Average Amount | Typical Sources of Constituent                                                                                                |
| Hardness (as CaCO <sub>3</sub> ) (mg/L)                       | N/A               | N/A                    | 2024        | 81 – 205            | 161            | Sum of polyvalent cations present in the water, generally magnesium and calcium. The cations are usually naturally occurring. |
| Sodium (mg/L) <sup>4</sup>                                    | N/A               | HA = 20                | 2024        | 16 – 86             | 39             | Salt present in water; generally naturally occurring                                                                          |

| RESIDENTIAL TAP MONITORING FOR LEAD AND COPPER <sup>3</sup>        | Action Level (AL) | PHG or (MCLG) | Year Tested | 90th Percentile Value             | Sites Exceeding AL/Number of Sites                                              | Typical Sources of Constituent                                                |
|--------------------------------------------------------------------|-------------------|---------------|-------------|-----------------------------------|---------------------------------------------------------------------------------|-------------------------------------------------------------------------------|
| Lead (ug/L)                                                        | 15                | 0.2           | 2022        | ND                                | 1/30                                                                            | Internal corrosion of household plumbing systems; erosion of natural deposits |
| Copper (mg/L)                                                      | 1.3               | 0.3           | 2022        | 0.26                              | 0/30                                                                            | Internal corrosion of household plumbing systems; erosion of natural deposits |
| LEAD SAMPLING OF DRINKING WATER IN CALIFORNIA SCHOOLS <sup>3</sup> |                   |               | Year Tested | Number of Schools Tested for Lead | Typical Sources of Constituent                                                  |                                                                               |
| Lead                                                               |                   |               | 2017–2019   | 15 schools                        | Internal corrosion of school site plumbing systems; erosion of natural deposits |                                                                               |

#### Definitions for Water Quality Analysis Table

**N/A** = Not Applicable

**ND** = Not Detected at or above the DDW Detection Limit for Purposes of Reporting

**NL** = Notification Level; a health-based advisory level established by DDW for constituents in drinking water that lack maximum contaminant levels (MCLs).

**HA** = USEPA Drinking Water Health Advisory

**pCi/L** = Picocuries per liter (a measure of radioactivity)

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

**ug/L** = micrograms per liter or parts per billion (ppb)

**ng/L** = nanograms per liter or parts per trillion (ppt)

*Reference concentrations are health-based and provide context for the detection of unregulated constituents*

#### Footnotes for Water Quality Analysis Table

<sup>1a</sup> Sampled within the distribution system; Compliance is based on locational running annual average (LRAA); Range listed represents the minimum and maximum sample results for all locations in 2024. Average amount listed is the highest LRAA for 2024.

<sup>1b</sup> Sampled within the distribution system; Compliance is based on quarterly running annual average (RAA).

<sup>1c</sup> Sampled within the distribution system.

<sup>2</sup> Sampled immediately after treatment where treated.

<sup>3</sup> Monitoring for some contaminants is allowed less than once per year because the concentrations of these contaminants do not change frequently. Some of the data, although representative, are more than one year old.

<sup>4</sup> The 20 ppm USEPA Health Advisory is for individuals on a 500 mg/day restricted sodium diet.

## For More Information

The District's annual Water Quality Report is electronically delivered. If you wish to obtain a print copy, please call the office at 831-475-8500. Owners and operators of multi-residential units such as apartments and condominium complexes should ensure that tenants receive this important information.

There is also a wealth of information on the internet about drinking water quality and water issues in general. In addition to the District's website, [soquelcreekwater.org](http://soquelcreekwater.org), other reliable and trustworthy sites include:

- California State Water Resources Control

Board, Division of Drinking Water (DDW)  
[waterboards.ca.gov/drinking\\_water/programs/index.shtml](http://waterboards.ca.gov/drinking_water/programs/index.shtml)

- U.S. Environmental Protection Agency (USEPA) [water.epa.gov/drink/index.ccfm](http://water.epa.gov/drink/index.ccfm)

## Get Involved

The District encourages public participation in its decision-making processes. The District is governed by a five-person, publicly elected Board of Directors. The Board meets the first and third Tuesday of each month at 6:00 pm. Check the District's website [soquelcreekwater.org](http://soquelcreekwater.org) for meeting location and most up-to-date information.