



## **2022 Water Quality Report**

Del Oro Water Company – River Island District, Territory 2  
Public Water System Number CA5402048

**Este informe contiene información muy importante sobre su agua potable. Tradúzcalo ó hable con alguien que lo entienda bien.**

Del Oro Water Company  
is firmly committed to producing and delivering a safe,  
dependable supply of quality water in an efficient, cost effective manner,  
with service that exceeds the expectations of our customers.

Getting to know Del Oro Water Company (DOWC).....

DOWC was established in 1963 to meet the water needs of the Paradise Pines area in Magalia, California. Since then, the company has expanded throughout California, and currently provides service to over 16,000 customers in ten counties: Shasta, Humboldt, Tehama, Butte, Glenn, Colusa, Tuolumne, Fresno, Tulare and Kern. DOWC is a Class B water utility under the direction of the California Public Utilities Commission (CPUC).

DOWC works diligently upgrading and improving each of its twenty districts. Because of their diverse geology, each district requires unique water quality testing (hundreds of water quality tests each year) and maintenance. DOWC completes CPUC-approved projects to replace and maintain over 700,000 feet of distribution piping; 96 pumps, booster pumps, and wells; and 32 storage tanks with over 8 million gallons of storage capacity. Five of DOWC's districts utilize surface water (springs, lakes, rivers or canals) to provide drinking water to their customers.

DOWC is proud to offer its customers excellent service provided by well trained field service technicians, many of whom are certified as treatment plant operators and water distribution operators. DOWC field technicians work earnestly to maintain the individual water systems as the cost to provide water service continues to increase, not just for DOWC customers, but throughout the United States.

DOWC tests the drinking water quality for all constituents as required by the State Water Resources Control Board – Division of Drinking Water (SWRCB-DDW) and the United States Environmental Protection Agency – Federal Regulations (EPA). This report shows the results of our most current monitoring for the period of January 1 - December 31, 2022 including results which are current but were taken in previous years.

DOWC tests for both “Regulated and Unregulated” contaminants. This consumer confidence report provides results for only contaminants which were detected in your district’s system.

Water for Del Oro Water Company, River Island District, Territory 2 (DOWCRIT2) originates from two groundwater wells known as Well No. 1 and 2. During 2022 DOWC did not pump water from Well No. 2, all results listed below are for Well No. 1 only.

A Source Water Assessment was completed in August 2002, and found that sources are considered most vulnerable to the following activities not associated with any detected contaminants: 1. Septic Systems, 2. Erosion of Natural Deposits. A copy of the complete assessment may be viewed by calling the District office at 1-877-335-6764.

If DOWCRIT2 District has information (public meetings, rate increase, water quality issues, drought information, or district improvements) of which you should be notified your billing will contain a message indicating the information or directing you to DOWC's website: [www.delorowater.com](http://www.delorowater.com). For additional information concerning your drinking water, you can contact Community Relations at P.O. Drawer 5172, Chico, CA 95927, 1-530-717-2500.

### Continuing Drought Information.....

State of California Executive Order B-40-17 lifts the drought emergency in all California counties except a few counties in the southern half of California. However, please keep in mind that Californians should always use water wisely. Water conservation tips apply to all areas of California throughout the year.

- Limit watering outside to three (3) days per week. Set up a schedule so you remember what days are your “watering” days
- Look for and fix leaks in your home or business and on your property
- Never use water to clean driveways and sidewalks
- Use water restricting devices in your home
- Always use a nozzle on your hose to control water usage

Updated conservation information can be found on our website.

### Concerns about Lead in your drinking water.....

Del Oro Water Company would like to inform its customers about the safety of lead and copper testing. While DOWC does not use lead pipes in the distribution lines that serve its customers, older homes may have been built using lead pipes or lead connectors. In California, lead in drinking water comes primarily from materials and components used for in-home plumbing (for example, lead solder used to join copper plumbing, brass and other lead-containing fixtures). Therefore, the established Lead and Copper Rule is critical to the water quality monitoring program. DOWC is working on the new Lead and Copper Service Line Inventory required by the California Water Boards and the USEPA. More information about this project will be forthcoming.

DOWC is responsible for providing high quality drinking water, but cannot control the variety of materials used in plumbing components. If your home’s plumbing contains lead piping or pipe fittings, lead solder, or brass fixtures that may contain lead, 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 present, elevated levels of lead can cause serious health problems, especially for pregnant women and young children. Lead and Copper Tap Monitoring by DOWC is conducted at designated customers’ homes and is an important part of a water utility’s monitoring schedule.

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/safewater/lead>.

In January 2017, the State of California issued new guidelines on lead testing in schools. DOWC is committed to supporting its school districts’ efforts to protect students by ensuring that the drinking water at the school sites meets lead requirements. DOWC has completed lead testing in schools (K through 12) that have requested lead testing within the DOWC service areas.

There are no schools in the River Island District, Territory 2, of Del Oro Water Company.

## Explanation of 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 (USEPA).

**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.

**Maximum Residual Disinfectant Level Goal (MRDLG):** The level of a disinfectant added for water treatment 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 or MRDLs for contaminants that affect health along with their monitoring and reporting requirements, and water treatment requirements.

**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 which a water system must follow.

**Variations and Exemptions:** Department permission 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 total coliform bacteria have been found in our water system on multiple occasions.

**ND:** Not detectable at testing limit

**pCi/L:** Picocuries per liter - a measure of radiation

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

**ppb:** Parts per billion or micrograms per liter (ug/L)      Million fibers per liter

**µS/cm:** microsiemens per centimeter (measure of specific conductance)

**ppt:** Parts per trillion or nanograms per liter (ng/L)

**ppq:** Parts per quadrillion, or picograms per liter

**NTU:** Nephelometric Turbidity Units

**MFL:**

**TON:** Threshold odor number

**All sources of drinking water** (both tap water and bottled water) come from 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, agriculture 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**, which 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**, which can be naturally-occurring or be the result of oil and gas production and mining activities

**To ensure that tap water is safe to drink**, EPA and the SWRCB-DDW prescribe regulations that limit the amount of certain contaminants in water provided by public water systems. State Board regulations also establish limits for contaminants in bottled water that provide the same protection for public health.

Some people may be more vulnerable to contaminants in drinking water than the general population. Immunocompromised people, such as those with Cancer undergoing chemotherapy, those who have undergone organ transplants, and those with HIV/AIDS or other immune system disorders; some elderly people; and infants can be particularly at risk from infections. These people should seek advice from their health care providers about their specific drinking water concerns. EPA and Centers for Disease Control and Prevention (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.

**Tables 1 - 7 list all of the drinking water contaminants that were tested during the most recent sampling for the constituent.**

If present in the drinking water, contaminants do 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 are not expected to vary significantly from year to year. Some of the data, though representative of the water quality, are more than a year old.

Results followed by an \* indicate a detected level over the MCL, MRDL, or TT and will have a footnote (1). Additional information regarding any violations (if applicable) will be provided later in this report.

**TABLE 1 – Sampling Results Showing the Detection of Coliform Bacteria – 2022 Monthly**

Microbiological Contaminants (and reporting units)	Highest No. of Detections	No. of Months in Violation	MCL	In Compliance?	Typical Source of Bacteria
Total Coliform Bacteria	0	0	1 positive monthly sample	Yes	<i>Naturally present in the environment</i>
Fecal Coliform or <i>E. Coli</i>	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	Yes	<i>Human and animal fecal waste</i>
<i>E. Coli</i> (Federal Revised Total Coliform Rule)	0	0	Routine & repeat samples are total coliform-positive & either is <i>E. coli</i> -positive or system fails to take repeat samples following <i>E. coli</i> -positive routine sample or system fails to analyze total coliform-positive repeat sample for <i>E. coli</i>	Yes	<i>Human and animal fecal waste</i>

**Table 2-Sampling Results Showing the Detection of Lead and Copper - Sample Date:**

Lead and Copper (and reporting units)	Sample Date	Number of Samples Collected	90th Percentile Level Detected	No. sites exceeding AL	AL	MCLG	In Compliance?	Typical Source of Contaminant
Lead (ppm)	7/23/2021	5	0.002582	None	0.015	0	Yes	<i>Internal corrosion of household water plumbing systems; discharges from industrial manufacturers; erosion of natural deposits; leaching from wood preservatives.</i>
Copper (ppm)	7/23/2021	5	0.2204	None	1.3	1.3	Yes	<i>Internal corrosion of household water plumbing systems; erosion of natural deposits; leaching from wood preservatives.</i>

**Table 3-Sodium and Hardness**

Chemical or Constituent (and reporting units)	Sample Date	Average Level Detected	Range of Detections	MCL	In Compliance?	Typical Source of Contaminant
Sodium (ppm)	10/6/2021	27	N/A	None	Yes	<i>Salt present in the water and is generally naturally occurring</i>
Hardness (ppm)	10/6/2021	270	N/A	None	Yes	<i>Sum of polyvalent cations present in the water, generally magnesium and calcium, and are usually naturally occurring</i>

**Table 4-Inorganic Contaminant with a PRIMARY Drinking Water Standard**

Chemical or Constituent (and reporting units)	Sample Date	Average Level Detected	Range of Detections	MCL	In Compliance?	Typical Source of Contaminant
Antimony (ppm)	10/6/2021	ND	N/A	6	Yes	<i>Discharge from petroleum refineries; fire retardants; ceramics; electronics; solder</i>
Arsenic (ppb)	2022	6.46	5.684 - 6.881	10	Yes <sup>1</sup>	<i>Erosion of natural deposits; runoff from orchards; glass and electronics production wastes</i>
Barium (ppm)	10/6/2021	16	N/A	1,000	Yes	<i>Discharges of oil drilling wastes and from metal refineries; erosion of natural deposits</i>

(<sup>1</sup>) While your drinking water meets the federal and state standard for arsenic, it does contain low levels of arsenic. The arsenic standard balances the current understanding of arsenic’s possible health effects against the costs of removing arsenic from drinking water. The U.S. Environmental Protection Agency continues to research the health effects of low levels of arsenic, which is a mineral known to cause cancer in humans at high concentrations and is linked to other health effects such as skin damage and circulatory problems.

Table 4-Inorganic Contaminant with a PRIMARY Drinking Water Standard - Continued						
Chemical or Constituent (and reporting units)	Sample Date	Average Level Detected	Range of Detections	MCL	In Compliance?	Typical Source of Contaminant
Beryllium (ppb)	10/6/2021	ND	N/A	4	Yes	Discharge from metal refineries, coal-burning factories, and electrical, aerospace, and defense industries
Cadmium (ppb)	10/6/2021	ND	N/A	5	Yes	Internal corrosion of galvanized pipes; erosion of natural deposits; discharge from electroplating and industrial chemical factories; and metal refineries; runoff from waste batteries & paints
Chromium (total) (ppb)	10/6/2021	ND	N/A	50	Yes	Discharge from steel and pulp mills and chrome plating; erosion of natural deposits
Fluoride (ppm)	10/6/2021	ND	N/A	2	Yes	Erosion of natural deposits; water additive that promotes strong teeth; discharge from fertilizer and aluminum factories, leather tanneries, wood preservation, chemical synthesis, refractory production, and textile manufacturing facilities; erosion of natural deposits
Mercury (ppb)	10/6/2021	ND	N/A	2	Yes	Erosion of natural deposits; discharge from refineries and factories; runoff from landfills and cropland
Nickel (ppb)	10/6/2021	ND	N/A	100	Yes	Erosion of natural deposits; discharge from metal factories
Nitrate (as N) (ppm)	2022	10.455 Raw 1.9325 POU	8.0 - 12.8 Raw 0.29 - 5.1 POU	10	Yes <sup>2</sup>	Runoff and leaching from fertilizer use; leaching from septic tanks and sewage; erosion of natural deposits
Nitrite (as N) (ppm)	2021	ND	N/A	1	Yes	Runoff and leaching from fertilizer use; leaching from septic tanks and sewage; erosion of natural deposits

(<sup>2</sup>) Please see page 10 of the report for more information regarding Nitrate.

Table 4-Inorganic Contaminant with a PRIMARY Drinking Water Standard - Continued						
Chemical or Constituent (and reporting units)	Sample Date	Average Level Detected	Range of Detections	MCL	In Compliance?	Typical Source of Contaminant
Perchlorate (ppb)	11/3/2021	ND	N/A	6	Yes	<i>Perchlorate is an inorganic chemical used in solid rocket propellant, fireworks, explosives, flares, matches, and a variety of industries. It usually gets into drinking water as a result of environmental contamination from historic aerospace or other industrial operations that used or use, store, or dispose of perchlorate and its salts</i>
Selenium (ppb)	10/6/2021	ND	N/A	50	Yes	<i>Discharge from petroleum, glass and metal refineries; erosion of natural deposits; discharge from mines and chemical manufacturers; runoff from livestock lots (feed additive)</i>
1,2,3- Trichloropropane (ppb)	11/2/2021	ND	N/A	0.005	Yes	<i>Discharge from industrial &amp; agricultural chemical factories; leaching from hazardous waste sites; used as cleaning and maintenance solvent, paint and varnish remover, and cleaning and degreasing agent; byproduct during the production of other compounds and pesticides.</i>
Table 5-Inorganic Contaminant with a SECONDARY Drinking Water Standard						
Chemical or Constituent (and reporting units)	Sample Date	Average Level Detected	Range of Detections	MCL	In Compliance?	Typical Source of Contaminant
Aluminum (ppb)	10/6/2021	ND	N/A	200	Yes	<i>Erosion of natural deposits; residual from some surface water treatment processes</i>
Color (units)	10/6/2021	ND	N/A	15	Yes	<i>Naturally-occurring organic materials</i>
Copper (ppb)	10/6/2021	5.2	N/A	1,000	Yes	<i>Internal corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives</i>
Foaming Agents (MBAS) (ppm)	10/6/2021	ND	N/A	0.5	Yes	<i>Municipal and industrial waste discharges</i>
Iron (ppb)	10/6/2021	ND	N/A	300	Yes	<i>Leaching from natural deposits; industrial wastes</i>
Manganese (ppb)	10/6/2021	ND	N/A	50	Yes	<i>Leaching from natural deposits</i>
Methyl-tert-butyl ether (MTBE) (ppb)	7/11/2017	ND	N/A	5	Yes	<i>Leaking underground storage tanks; discharge from petroleum and chemical factories</i>
Odor - Threshold (TON)	10/6/2021	ND	N/A	3	Yes	<i>Naturally-occurring organic materials</i>
Silver (ppb)	10/6/2021	ND	N/A	100	Yes	<i>Industrial discharges</i>
Turbidity (NTU)	10/6/2021	0.15	N/A	5	Yes	<i>Soil Runoff</i>
Zinc (ppb)	10/6/2021	ND	N/A	5,000	Yes	<i>Runoff/leaching from natural deposits; industrial wastes</i>
Total Dissolved Solids (TDS) (ppm)	10/6/2021	430	N/A	1,000	Yes	<i>Runoff/leaching from natural deposits</i>
Specific Conductance ( $\mu$ S/cm)	10/6/2021	640	N/A	1,600	Yes	<i>Substances that form ions when in water; seawater influence</i>
Chloride (ppm)	10/6/2021	36	N/A	500	Yes	<i>Runoff/leaching from natural deposits; seawater influence</i>
Sulfate (ppm)	10/6/2021	33	N/A	500	Yes	<i>Runoff/leaching from natural deposits; industrial wastes</i>



Table 6-Radioactive Contaminants						
Chemical or Constituent (and reporting units)	Sample Date	Average Level Detected	Range of Detections	MCL	In Compliance?	Typical Source of Contaminant
Gross Alpha (pCi/L)	2022	20.975 Raw 0.9015 POU	17.1 - 25.4 Raw ND - 3.79 POU	15	No <sup>3</sup>	Erosion of natural deposits
Uranium (pCi/L)**	2022	17.85	16.0 - 20.0	20	Yes	

Table 7-Radioactive Contaminants						
Chemical or Constituent (and reporting units)	Sample Date	Average Level Detected	Range of Detections	MCL	In Compliance?	Typical Source of Contaminant
TTHM's (Total Trihalomethanes)(ppb)	7/6/2022	8.2	N/A	80	Yes	Byproduct of drinking water chlorination
HAA5 (Haloacetic Acids) (ppb)	7/6/2022	2.4	N/A	60	Yes	
Chlorine Residual (ppm)	2022	0.79	0.49 - 1.10	4	Yes	

<sup>(1)</sup> Level of Gross Alpha is above the MCL which triggers a follow up for Uranium to make sure Radioactive Contaminants do not exceed the standard MCL.

\*\* Please see page 10 of the report for more information regarding Uranium.

#### WHAT STEPS ARE BEING TAKEN TO REDUCE OR ELIMINATE THE NITRATE AND URANIUM PROBLEMS?

River Island District, Territory 2 has wells within the District with higher than MCL levels for Uranium. As a result, as our customers, you are being notified monthly of the results of the wells with SWRCB-DDW Compliance Orders for high Uranium.

Del Oro has corrected the issue by implementing the Point of Use (POU) treatment devices that were installed at each residence served by the distribution system in 2020. The device brings Uranium and Nitrate back into compliance with primary MCL drinking water standards. The device for removal of Nitrate and Uranium is a Culligan Aqua-Clear advanced drinking water system, which has been approved by the State Department of Public Health.

Results listed for Nitrate and Uranium are the most current averages which include samples taken from our Wells for Raw Water, and Point of Use devices that are collected from those homes that have a POU device system.

<sup>(2)</sup> Infants below the age of six months who drink water containing Nitrate in excess of the MCL could become seriously ill and, if untreated, may die. Symptoms include shortness of breath and blue baby syndrome. High nitrate levels may also affect the oxygen-carrying ability of blood of pregnant women. In October 16, 2008 SWRCB-DDW issued Compliance Order No. 03-12-080-031 to DOWCRIT2 for Wells No. 1 and 2 for nitrates which exceeded the MCL. DOWCRIT2 started testing quarterly for nitrate from that date forward, however, nitrate results have been in compliance for Well No. 1 since December 2013. Well No. 2 has not been in use but still continues to be monitored. DOWCRIT2 continues to monitor the nitrate levels quarterly and customers are being notified monthly. For more information you can go to [www.ephracking.cdc.gov](http://www.ephracking.cdc.gov)

<sup>(3)</sup> Some people who drink water containing Uranium above the MCL for several years may have kidney problems or increased risk of getting cancer and of kidney toxicity. On September 26, 2019 SWRCB-DDW issued Compliance Order No. 03\_12\_19R010 to DOWCRIT2 for Wells No. 1 and 2 for Uranium which exceeded the MCL. DOWCRIT2 started testing quarterly for Uranium from that date forward. Quarterly notices are mailed to the customer each month that the system is out of compliance. The most recent notice was mailed June 22, 2022. For more information you can go to [www.ephracking.cdc.gov](http://www.ephracking.cdc.gov)

**ADDITIONAL GENERAL INFORMATION ON DRINKING WATER:**

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 at 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 individuals, and infants can be particularly at risk from infections. These people should seek advice about drinking water from their health care providers. The USEPA/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 Safe Drinking Water Hotline at 1-800-426-4791. Infants and young children are typically more vulnerable to lead in drinking water than the general populations. It is possible that lead levels at your home may be higher than at other homes in the community as a result of materials used in your homes plumbing.