



Presented By
City of Torrance

ANNUAL
**WATER
QUALITY
REPORT**

WATER TESTING PERFORMED IN 2017

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

Quality First

Once again we are pleased to present our annual water quality report. As in years past, we are committed to delivering the best-quality drinking water possible. To that end, we remain vigilant in meeting the challenges of new regulations, source water protection, water conservation, and community outreach and education while continuing to serve the needs of all of our water users. Thank you for allowing us the opportunity to serve you and your family.

We encourage you to share your thoughts with us on the information contained in this report. After all, well-informed customers are our best allies.

Community Participation

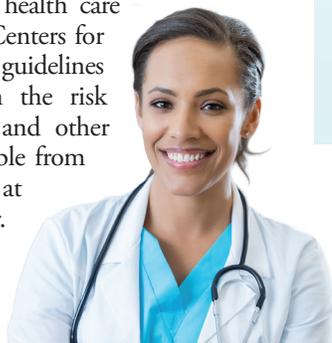
The Torrance Water Commission meets on the fourth Wednesday of each month, beginning at 7:00 p.m., at the West Annex of City Hall, 3031 Torrance Boulevard, Torrance. You are invited to participate in our public forum and voice your concerns about your drinking water.

Source Water Assessment

An assessment of the drinking water source for the city was completed in May 2015. This study was done in compliance with the State Water Resources Control Board Division of Drinking Water Assessment Program, the goal of which is to determine the water system's vulnerability to possible sources of contamination. The assessment determined that our groundwater is most vulnerable to historic gas stations and underground storage tanks. For a copy of the complete assessment, contact the City of Torrance Public Works Department at (310) 781-6900 or visit the following link: <https://www.torranceca.gov/home/showdocument?id=16939>.

Important Health Information

Some people may be more vulnerable to contaminants in drinking water than the general population. Immunocompromised persons such as those with cancer undergoing chemotherapy, those who have undergone organ transplants, people with HIV/AIDS or other immune system disorders, some elderly, and infants may be particularly at risk from infections. These people should seek advice about drinking water from their health care providers. The U.S. EPA/CDC (Centers for Disease Control and Prevention) 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 (800) 426-4791 or <http://water.epa.gov/drink/hotline>.



Substances That Could Be in 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.

In order to ensure that tap water is safe to drink, the U.S. Environmental Protection Agency (U.S. EPA) 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 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. 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.

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 can 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 applications, and septic systems;

Radioactive Contaminants, that can be naturally occurring or can be the result of oil and gas production and mining activities.

More information about contaminants and potential health effects can be obtained by calling the U.S. EPA's Safe Drinking Water Hotline at (800) 426-4791.

Conserving Water

Although California received exceptional precipitation in early 2017, ending a five-year drought, Californians must remain committed to water conservation as a way of life. Thanks to the efforts of our customers, the City of Torrance continues to meet its conservation goals. With your continued commitment, conservation savings will continue to grow. Here's how you can reduce your water use:

- Water your lawn as needed, usually 1 to 2 days a week during winter: Saves up to 840 gallons per week.
- Check the sprinkler system for leaks or overspray and repair promptly: Saves up to 500 gallons per month.
- Install a smart sprinkler controller that adjusts for weather, soil type, and plant type: Saves up to 40 gallons day.
- Fix household water leaks promptly: Saves up to 20 gallons per day.
- Wash only full loads of dishes and clothes: Saves up to 50 gallons per load.
- Take 5-minute showers: Saves up to 8 gallons per shower.
- Turn off the water while you brush your teeth: Saves 2.5 gallons per minute.

For more information and conservation rebates, go to BeWaterWise.com and TorranceCA.Gov/PublicWorks.

Fluoridation

Our water system treats your water by adding fluoride to the naturally occurring level to help prevent dental caries in consumers. State regulations require the fluoride levels in the treated water to be maintained within a range of 0.6 - 1.2 ppm with an optimum dose of 0.7 ppm. Our monitoring showed that the fluoride levels in the treated water ranged from 0.64 - 0.9 with an average of 0.82 ppm. Information about fluoridation, oral health, and current issues is available from http://www.swrcb.ca.gov/drinking_water/certlic/drinkingwater/Fluoridation.shtml.

Where Does My Water Come From?

The City of Torrance Municipal Water Utility serves approximately 115,000 residents. In 2017, the Municipal Water Utility distributed approximately 17,385 acre-feet of drinking water to its customers, or approximately 5.7 billion gallons. One acre-foot of water is equivalent to 325,900 gallons or an acre of land covered with one foot of water. Torrance purchased 89 percent of

the total potable water supply from the Metropolitan Water District of Southern California (MWD), a regional wholesaler of imported surface water. This water originates from two sources: (1) the Colorado

River, via the 242-mile Colorado River Aqueduct, and (2) Northern California, via the 441-mile California Water Aqueduct.

The Metropolitan Water District performs advanced multi-stage treatment of imported water in five regional treatment plants. The remaining 11 percent of the municipal potable water supply came from one operating well, pumping from the West Coast Ground Water Basin, and from a groundwater desalination project.

Water treatment is a complex, time-consuming process.

Lead in Home Plumbing

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. We are responsible for providing high-quality drinking water, but we cannot control the variety of materials used in plumbing components. When your water has been sitting for several hours, you can minimize the potential for lead exposure by flushing your tap for 30 seconds to 2 minutes before using water for drinking or cooking. (If you do so, you may wish to collect the flushed water and reuse it for another beneficial purpose, such as watering plants.) If you are concerned about lead in your water, you may wish to have your water tested. Information on lead in drinking water, testing methods, and steps you can take to minimize exposure is available from the Safe Drinking Water Hotline or at www.epa.gov/lead.

QUESTIONS?

For more information about this report, or for any questions relating to your drinking water, please call Andy Darlak, Water Operations Superintendent, at (310) 781-6900.

Test Results

Our water is monitored for many different kinds of substances on a very strict sampling schedule. The information in the data tables shows only those substances that were detected between January 1 and December 31, 2017. Remember that detecting a substance does not necessarily mean the water is unsafe to drink; our goal is to keep all detects below their respective maximum allowed levels. The state recommends monitoring for certain substances less often than once per year because the concentrations of these substances do not change frequently. In these cases, the most recent sample data are included, along with the year in which the sample was taken.

We participated in the 3rd stage of the U.S. EPA's Unregulated Contaminant Monitoring Rule (UCMR3) program by performing additional tests on our drinking water. UCMR3 benefits the environment and public health by providing the EPA with data on the occurrence of contaminants suspected to be in drinking water, in order to determine if the EPA needs to introduce new regulatory standards to improve drinking water quality. Contact us for more information on this program.

REGULATED SUBSTANCES										
			City of Torrance Groundwater		MWD Surface Water		Monitored in the Distribution System			
SUBSTANCE (UNIT OF MEASURE)	MCL [MRDL]	PHG (MCLG) [MRDLG]	AMOUNT DETECTED	RANGE LOW-HIGH	AMOUNT DETECTED	RANGE LOW-HIGH	AMOUNT DETECTED	RANGE LOW-HIGH	VIOLATION	TYPICAL SOURCE
Aluminum (ppm)	1	0.6	ND	NA	0.13	ND–0.21	NA	NA	No	Erosion of natural deposits; residue from some surface water treatment processes
Arsenic (ppb)	10	0.004	ND	NA	ND	ND–2.4	NA	NA	No	Erosion of natural deposits; runoff from orchards; glass and electronics production wastes
Barium (ppm)	1	2	0.07	ND–0.13	ND	NA	NA	NA	No	Discharges of oil drilling wastes and from metal refineries; erosion of natural deposits
Chlorine (ppm)	[4.0 (as Cl ₂)]	[4 (as Cl ₂)]	NA	NA	NA	NA	1.4	0.2–2.7	No	Drinking water disinfectant added for treatment
Fecal coliform and <i>E. coli</i> (# positive samples)	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)	NA	NA	NA	NA	0	NA	No	Human and animal fecal waste
Fluoride (ppm)	2.0	1	0.27	0.25–0.31	0.7	0.5–0.9	0.82	0.64–0.90	No	Erosion of natural deposits; water additive that promotes strong teeth; discharge from fertilizer and aluminum factories
Gross Alpha Particle Activity ¹ (pCi/L)	15	(0)	ND	NA	ND	ND–4.0	NA	NA	No	Erosion of natural deposits
Gross Beta Particle Activity (pCi/L)	50	(0)	NA	NA	ND	ND–5.0	NA	NA	No	Decay of natural and man-made deposits
Haloacetic Acids (HAAs) (ppb)	60	NA	NA	NA	NA	NA	17.3	2.7–24.4	No	By-product of drinking water disinfection
Methyl tert-Butyl Ether [MTBE] ² (ppb)	13	13	0.88	ND–3.5	ND	NA	NA	NA	No	Leaking from underground gasoline storage tanks; discharge from petroleum and chemical factories
Nitrate [as nitrate] (ppm)	45	45	ND	NA	0.30	ND–0.6	NA	NA	No	Runoff and leaching from fertilizer use; leaching from septic tanks and sewage; erosion of natural deposits
Radium 226 (pCi/L)	5	0.05	0.09	0.09–0.09	ND	NA	NA	NA	No	Erosion of natural deposits
Radium 228 (pCi/L)	5	0.019	0.05	ND–0.1	ND	NA	NA	NA	No	Erosion of natural deposits
TTHMs [Total Trihalomethanes] (ppb)	80	NA	NA	NA	NA	NA	68.4	2.1–73.3	No	By-product of drinking water disinfection

REGULATED SUBSTANCES

			City of Torrance Groundwater		MWD Surface Water		Monitored in the Distribution System			
SUBSTANCE (UNIT OF MEASURE)	MCL [MRDL]	PHG (MCLG) [MRDLG]	AMOUNT DETECTED	RANGE LOW-HIGH	AMOUNT DETECTED	RANGE LOW-HIGH	AMOUNT DETECTED	RANGE LOW-HIGH	VIOLATION	TYPICAL SOURCE
Total Coliform Bacteria (% positive samples)	TT	NA	0	NA	NA	NA	0.3	NA	No	Naturally present in the environment
Turbidity (NTU)	TT	NA	NA	NA	NA	NA	0.5	0.4–0.5	No	Soil runoff
Uranium (pCi/L)	20	0.43	ND	NA	ND	ND–3.0	NA	NA	No	Erosion of natural deposits

Tap water samples were collected for lead and copper analyses from sample sites throughout the community.

SUBSTANCE (UNIT OF MEASURE)	AL	PHG (MCLG)	AMOUNT DETECTED (90TH%TILE)	SITES ABOVE AL/ TOTAL SITES	VIOLATION	TYPICAL SOURCE
Copper (ppm)	1.3	0.3	0.15	0/200	No	Internal corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives
Lead (ppb)	15	0.2	ND	1/200	No	Internal corrosion of household plumbing systems; discharges from industrial manufacturers; erosion of natural deposits

SECONDARY SUBSTANCES

			City of Torrance Groundwater		MWD Surface Water		Monitored in the Distribution System			
SUBSTANCE (UNIT OF MEASURE)	SMCL	PHG (MCLG)	AMOUNT DETECTED	RANGE LOW-HIGH	AMOUNT DETECTED	RANGE LOW-HIGH	AMOUNT DETECTED	RANGE LOW-HIGH	VIOLATION	TYPICAL SOURCE
Aluminum (ppb)	200	NS	ND	NA	0.13	ND–0.210	NA	NA	No	Erosion of natural deposits; residual from some surface water treatment processes
Chloride (ppm)	500	NS	140	110–140	66	29–94	NA	NA	No	Runoff/leaching from natural deposits; seawater influence
Color (Units)	15	NS	<5	<5–5.0	2	1–2	<5	<5–<5	No	Naturally occurring organic materials
Corrosivity (Units)	Non-corrosive	NS	12.7	12.7–12.7	12	11.9–12.1	NA	NA	No	Natural or industrially influenced balance of hydrogen, carbon, and oxygen in the water; affected by temperature and other factors
Manganese (ppb)	50	NS	36.8	20–53	ND	NA	NA	NA	No	Leaching from natural deposits
Methyl tert-Butyl Ether [MTBE]² (ppb)	5	NS	0.88	ND–3.5	NA	NA	NA	NA	No	Leaking underground storage tanks; discharge from petroleum and chemical factories
Odor–Threshold (Units)	3	NS	ND	NA	2.5	2.0–3.0	ND	NA	No	Naturally occurring organic materials
Specific Conductance (µS/cm)	1,600	NS	1,100	1,100–1,100	526	299–626	NA	NA	No	Substances that form ions when in water; seawater influence
Sulfate (ppm)	500	NS	197.5	65–330	77	46–123	NA	NA	No	Runoff/leaching from natural deposits; industrial wastes
Total Dissolved Solids (ppm)	1,000	NS	557	350–680	308	179–373	NA	NA	No	Runoff/leaching from natural deposits
Turbidity (Units)	5	NS	0.25	ND–0.5	ND	NA	NA	NA	No	Soil runoff

UNREGULATED CONTAMINANT MONITORING RULE PART 3 (UCMR3) - CITY OF TORRANCE GROUNDWATER ³

SUBSTANCE (UNIT OF MEASURE)	YEARS SAMPLED	AMOUNT DETECTED	RANGE LOW-HIGH
Chlorate (ppb)	2013–2015	175.88	ND–920
Chromium [Total] (ppb)	2013–2015	0.01	ND–0.21
Chromium VI [Hexavalent Chromium] (ppb)	2013–2015	0.02	ND–0.06
Molybdenum (ppb)	2013–2015	0.83	ND–4.7
Strontium (ppb)	2013–2015	348.6	ND–1,200
Vanadium (ppb)	2013–2015	0.5	ND–3.2

¹ Gross alpha particle activity standard also includes the radium 226 standard.

² MTBE was detected in one well in 2014 after treatment effluent samples were nondetectable.

³ Unregulated contaminant monitoring helps the U.S. EPA and the State Water Resources Control Board to determine where certain contaminants occur and whether the contaminants need to be regulated.

Definitions

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

µS/cm (microsiemens per centimeter): A unit expressing the amount of electrical conductivity of a solution.

LRAA (Locational Running Annual Average): The average of sample analytical results for samples taken at a particular monitoring location during the previous four calendar quarters. Amount Detected values for TTHMs and HAAs are reported as the highest LRAAs.

MCL (Maximum Contaminant Level): 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 (SMCLs) are set to protect the odor, taste, and appearance of drinking water.

MCLG (Maximum Contaminant Level Goal): 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. EPA.

MRDL (Maximum Residual Disinfectant Level): 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.

MRDLG (Maximum Residual Disinfectant Level Goal): 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.

NA: Not applicable

ND (Not detected): Indicates that the substance was not found by laboratory analysis.

NS: No standard

NTU (Nephelometric Turbidity Units): Measurement of the clarity, or turbidity, of water. Turbidity in excess of 5 NTU is just noticeable to the average person.

pCi/L (picocuries per liter): A measure of radioactivity.

PDWS (Primary Drinking Water Standard): MCLs and MRDLs for contaminants that affect health along with their monitoring and reporting requirements, and water treatment requirements.

PHG (Public Health Goal): 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 EPA.

ppb (parts per billion): One part substance per billion parts water (or micrograms per liter).

ppm (parts per million): One part substance per million parts water (or milligrams per liter).

TT (Treatment Technique): A required process intended to reduce the level of a contaminant in drinking water.