



Presented By

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

♻️ Recycled and Recyclable
Copyright ©2022 Gemini Group LLC
All rights reserved
CA017218-1

City of Imperial
420 South Imperial Avenue
Imperial, CA 92251

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, which are by-products of industrial processes and petroleum production, and which 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.

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 regulates 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:

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.

Where Does My Water Come From?

The City of Imperial receives its water supply from the Colorado River via the All-American Canal and the facilities of the Imperial Irrigation District. Our treatment process includes sedimentation, coagulation, flocculation, filtration, and disinfection. The city currently provides an average of 2.6 million gallons per day and 961 million gallons of water annually to its citizens. At the present time, the City of Imperial meets all applicable State Board, Division of Drinking Water and U.S. EPA water quality standards. The raw water we receive from the All-American Canal exceeded standards for aluminum and iron. Water quality data for the reporting period ending December 31, 2021, is enclosed. Additional 2021 water quality information is available for review upon request.

Testing for Cryptosporidium

Monitoring of our source water indicates zero presence of *Cryptosporidium*, a microbial pathogen found in surface water throughout the U.S. Although filtration removes *Cryptosporidium*, the most commonly used filtration methods cannot guarantee 100-percent removal. Current test methods do not allow us to determine if the organisms are dead or if they are capable of causing disease. Ingestion of *Cryptosporidium* may cause cryptosporidiosis, an abdominal infection. Symptoms of infection include nausea, diarrhea, and abdominal cramps. Most healthy individuals can overcome the disease within a few weeks. However, immunocompromised people, infants and small children, and the elderly are at greater risk of developing life-threatening illness. We encourage immunocompromised individuals to consult their doctor regarding appropriate precautions to take to avoid infection. *Cryptosporidium* must be ingested to cause disease, and it may be spread through means other than drinking water.

QUESTIONS? For more information about this report or any questions relating to your drinking water, or to voice your concerns about your drinking water, please call Robert Emmett, Chief Water Plant Operator, at (760) 355-2155.

PR SRT STD
U.S. Postage
PAID
Gemini Group
22901

ANNUAL WATER QUALITY REPORT

Reporting Year 2021

We've Come a Long Way

Once again, we are proud to present our annual water quality report covering the period between January 1 and December 31, 2021. In a matter of only a few decades, drinking water has become exponentially safer and more reliable than at any other point in human history. Our exceptional staff continues to work hard every day—at all hours—to deliver the highest-quality drinking water without interruption. Although the challenges ahead are many, we feel that by relentlessly investing in customer outreach and education, new treatment technologies, system upgrades, and training, the payoff will be reliable, high-quality tap water delivered to you and your family.

Important Health Information

Infants and young children are typically more vulnerable to lead in drinking water than the general population. 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 home's plumbing. If you are concerned about elevated lead levels in your home's water, you may wish to have your water tested. You may also flush your tap for 30 seconds to two minutes before using water for drinking or cooking. Additional information is available from the U.S. EPA Safe Drinking Water Hotline at (800) 426-4791 or epa.gov/safewater/lead.

Some people may be more vulnerable to contaminants in drinking water than the general population. Immunocompromised 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 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>.

Source Water Assessment

A source water assessment plan (SWAP) is now available at our office. If you would like to review the SWAP, please feel free to contact our office during regular office hours.

Water Treatment Process

The treatment process consists of a series of steps. First, raw water is drawn from our water source and sent to several holding ponds before being pumped to a settling basin that has flocculator mixers, where a polymer and a coagulant are added. The addition of these substances causes small particles, called floc, to adhere to one another, making them heavy enough to settle into a basin, from which sediment is removed. At this point, the water is filtered through layers of fine coal and silicate sand. As smaller suspended particles are removed, turbidity disappears and clear water emerges.

Chlorine is added after filtration to disinfect the water, which prevents the development of bacteria. We carefully monitor the amount of chlorine, adding the lowest quantity necessary to protect the safety of your water without compromising taste. Next, a portion of the water is pumped into four granular activated carbon columns to reduce total organic carbon, which is one of the precursors of total trihalomethane formation in water. Finally, the combined water is sent to a two-million-gallon finished water tank. From there, the water is pumped into the distribution system and to your home or business.

City Council Meeting

You are invited to participate in our city council meetings. We meet the first and third Wednesday of each month beginning at 7:00 p.m. at the Imperial Council Chambers, 200 West Ninth Street, Imperial.

Test Results

Our water is monitored for many different kinds of substances on a very strict sampling schedule, and the water we deliver must meet specific health standards. Here, we only show those substances that were detected in our water (a complete list of all our analytical results is available upon request). Remember that detecting a substance does not 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 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.

SUBSTANCE (UNIT OF MEASURE)	YEAR SAMPLED	PHG (MCLG)	AMOUNT DETECTED	RANGE LOW-HIGH	AMOUNT DETECTED	RANGE LOW-HIGH	UNREGULATED AND OTHER	
							Primary Standards	Central Main Canal
Barium (ppm)	2021	1	2	0.11	NA	NA		
Fluoride (ppm)	2021	2.0	1	0.41	NA	NA		
Nitrate as N (ppm)	2021	10	10	ND	NA	NA		
TTHMs Total (trihalomethanes)—Stage 1 ¹	2021	80	80	ND	29-79	No	By-product of drinking water disinfection	

SUBSTANCE (UNIT OF MEASURE)	YEAR SAMPLED	PHG (MCLG)	AMOUNT DETECTED	RANGE LOW-HIGH	AMOUNT DETECTED	RANGE LOW-HIGH	UNREGULATED SUBSTANCES ³	
							Amount	Typical Source
Aluminum (ppb)	2021	NS	100	NA	NA	NA	Erosion of natural deposits; residual from some surface water treatment processes	
Color (units)	2021	NS	20	NA	NA	NA	Naturally occurring organic materials	
Iron (ppb)	2021	NS	110	NA	NA	NA	Leaching from natural deposits; industrial wastes	
Manganese (ppb)	2021	NS	50	NA	NA	NA	Leaching from natural deposits	
Specific Conductance (µmho/cm)	2021	NS	1,200	NA	NA	1,100	Substances that form ions when in water; seawater influence	
Sulfate (ppm)	2021	NS	280	NA	280	NA	Runoff/leaching from natural deposits; industrial wastes	
Total Dissolved Solids (ppm)	2021	NS	760	NA	NA	NA	Runoff/leaching from natural deposits	
Turbidity (NTU)	2021	NS	5	NS	12	NA	Soil runoff	

SUBSTANCE (UNIT OF MEASURE)	YEAR SAMPLED	AMOUNT DETECTED	RANGE LOW-HIGH	TYPICAL SOURCE	OTHER UNREGULATED SUBSTANCES ³	
					Amount	Typical Source
Alkalinity, Total (ppm)	2021	160	NA	NA		
Bicarbonate (ppm)	2021	200	NA	NA		
Calcium (ppm)	2021	82	NA	NA		
Magnesium (ppm)	2021	29	NA	NA		
pH (units)	2021	8.44	NA	NA		
Potassium (ppm)	2021	4.9	NA	NA		
Total Anions (ppm)	2021	12.5	NA	NA		
Total Cations (ppm)	2021	11.8	NA	NA		

¹ Some people who drink water containing trihalomethanes in excess of the MCL over many years may experience problems with their liver, kidneys, or central nervous system and may have an increased risk of getting cancer.
² Sampled in 2018.
³ Unregulated contaminant monitoring helps U.S. EPA and the State Board determine where certain contaminants occur and whether the contaminants need to be regulated.

LEAD MONITORING

CONTAMINANT (CCR UNITS)	MCL	PHG (OR MCLG)	AVERAGE	RANGE	SAMPLE DATE	VIOLATION	TYPICAL SOURCE
TTHM (µg/L)	80	N/A	57	28-79	2021	No	By-product of drinking water disinfection
AL in CCR units							
Lead DLR							
Lead Action Level (90th percentile)							
AUG 2019 LEAD RESULTS (µg/L)							
Site 1	0	ND	0	0	0	0	
Site 2	0	ND	0	0	0	0	
Site 3	0	ND	0	0	0	0	
Site 4	0	ND	0	0	0	0	
Site 5	0	ND	0	0	0	0	
Site 6	0	ND	0	0	0	0	
Site 7	0	ND	0	0	0	0	
Site 8	0	ND	0	0	0	0	
Site 9	0	ND	0	0	0	0	
Site 10	0	ND	0	0	0	0	
Lab Reported Results	8.6	ND	ND	ND	ND	ND	
Results Converted per section 64678 (c)	8.6	ND	ND	ND	ND	ND	



2021 TTHM RESULTS (µg/L)

Location	1st QTR	2nd QTR	3rd QTR	4th QTR
Site 1	63	79	79	59
Site 1 LRAA ¹	72	67	71	70
Site 2	38	54	65	28
Site 2 LRAA ¹	44	42	47	46
Site 3	51	75	75	56
Site 3 LRAA ¹	69	64	64	64
Site 4	34	56	64	30
Site 4 LRAA ¹	45	44	48	46

¹ LRAA for Quarters 1 to 3 are based on results from previous quarters not reported on this table.