

Copyright ©2022 Gemini Group LLC

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

City of Imperial 420 South Imperial Avenue Imperial, CA 92251

PR SRT STD U.S. Postage

We've Come a Long Way

nce 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

nfants and young children are typically more vul-Inerable 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

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

Tou 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.

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

and mining activities.

occurring or can be the result of oil and gas production Radioactive Contaminants that can be naturally

runoth, agricultural applications, and septic systems; which can also come from gas stations, urban stormwater of industrial processes and petroleum production, and and volatile organic chemicals, which are by-products Organic Chemical Contaminants, including synthetic

and residential uses; of sources such as agriculture, urban stormwater runoff, Pesticides and Herbicides that may come from a variety

discharges, oil and gas production, mining, or farming; stormwater runoff, industrial or domestic wastewater can be naturally occurring or can result from urban Inorganic Contaminants, such as salts and metals, that

systems, agricultural livestock operations, and wildlife; that may come from sewage treatment plants, septic Microbial Contaminants, such as viruses and bacteria,

Contaminants that may be present in source water

does not necessarily indicate that water poses a health of some contaminants. The presence of contaminants reasonably be expected to contain at least small amounts health. Drinking water, including bottled water, may bottled water that provide the same protection for public California law also establish limits for contaminants in The U.S. Food and Drug Administration regulations and contaminants in water provided by public water systems. prescribe regulations that limit the amount of certain the State Water Resources Control Board (State Board) U.S. Environmental Protection Agency (U.S. EPA) and In order to ensure that tap water is safe to drink, the

the presence of animals or from human activity. tive material, and can pick up substances resulting from naturally occurring minerals and, in some cases, radioacsurface of the land or through the ground, it dissolves reservoirs, springs, and wells. As water travels over the bottled water) include rivers, lakes, streams, ponds, The sources of drinking water (both tap water and

Substances That Could Be in Water

Where Does My Water Come From?

he City of Imperial receives its water supply from L 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

onitoring of our source water indicates zero pres-Mence 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.

For more information about QUESTIONS? 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.

Definitions

90th %ile: The levels reported for lead and copper represent the 90th percentile of the total number of sites tested. The 90th percentile is equal to or greater than 90% of our lead and copper detections.

AL (Regulatory Action Level): The

concentration of a contaminant which, if exceeded, triggers treatment or other requirements that a water system must follow.

MCL (Maximum Contaminant Level):

The highest level of a contaminant that is allowed in drinking water. Primary MCLs allowed in drinking water. Primary MCLs are set as close to the PHGs (or MCLGs) as are set as close to the PHGs

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 water below which there is no known or

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

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.

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).

umho/cm (micromhos per centimeter):

A unit expressing the amount of electrical conductivity of a solution.

ur 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.

			• •							. , =		
eposits	b leruran mort g	gnidəsəJ	V.	N		6.₽		7071		Potassium (ppm)		
cposits	b leruran mort g	gnidəsəJ	AN		<i>ት</i> ት. 8			2021		(stinu) Hq		
eposits	b leruran mort g	gnidəsə.J	∀.	N		67		2021		Magnesium (ppm)		
eposits	b leruran mort g	Raidosea L	ΑN			78		2021		Calcium (ppm)		
eposits	b leruran mort g	gnidəsə.J	VN		700			1202		Bicarbonate (ppm)		
eposits	b leruran mort g	gnidəsəJ	VΝ		160			2021		Alkalinity, Total (ppm)		
	SOURCE	TYPICAL	БАИGE ГОМ-НІВН		AMOUNT DETECTED			YEAR SAMPLED		SUBSTANCE (UNIT OF MEASURE)		
								₹NCES 3	∕TS8∪S Œ	OTHER UNREGULATE		
natural deposits	Leaching from	٧N	N ε		1202		70			(dqq) muibeneV		
natural deposits	Leaching from	٧N			T071		70	(mqq) muib				
natural deposits	mori gnidəsəd	٧N		079	320		70		Hardness, Total [as CaC			
natural deposits	Leaching from	٧N		09	7071 1707		70		Boron (ppb)			
3	TYPICAL SOURC	и-нісн ИИСЕ			IPLED DETECTED		AEAR SAMPLE			SUBSTANCE (UNIT OF MEASURE)		
									TANCES 3	UNREGULATED SUBS		
Honur liol	Хes	ΨN	٧N	٧N	I	17	SN	ς	1707	(UTV) (VIbidan)		
Runoff/leaching from natural deposits	οN	٧N	ΨN	AN		094	SN	000'1	1707	Total Dissolved Solids (mqq)		
Runoff/leaching from natural deposits; industrial wastes	oN	z∀N	z087	AV		087	SN	005	7071	Sulfate (ppm)		
water; seawater influence										(hmho/cm)		
Substances that form ions when in	oN	AN	001,1			1,200	SN	009'I	7071	Specific Conductance		
Leaching from natural deposits	οN	_z VN	zVN	AV	1	ND	SN	05	2021	Мапganese (ppb)		
Leaching from natural deposits; industrial wastes	οN	ΨN	٧N	AV	I	110	SN	300	7071	Iron (ppb)		
Naturally occurring organic materials	οN	VΝ	٧N	AV	I	07		ŞI	7071	(esinu) 10loO		
Erosion of natural deposits; residual from some surface water treatment	οN	ΨN	٧N	۷V	AN 001		SN	SN 007		(dqq) munimulA		
TYPICAL SOURCE	EXCEEDANCE	НЭІН-МОГ НЭІН-МОТ	MOUNT			DETECTE	(MCLG)	змсг	AEAR SAMPLED	SUBSTANCE (UNIT OF MEASURE)		
		leneJ nie	Primary St Central Ma	nisM	Unregulated And Other Substances Central Main Canal Isnac THOMA PHG			TOTAL STATE OF THE				
										SECONDARY SUBSTAI		
drinking water disinfection	By-product of o	οN	62-0	67 (IN	VΝ	08	1707	lstot] sMHTT ¹ I seat2–[seanstemoleditat			
thing from fertilizer use, leaching shing sa and sewage; erosion of natural	Runoff and lead from septic tank	οN	V۱	I (IN	10	10	1707		Vitrate as N (ppm)		
ral deposits; water additive that 3 teeth; dischatge from fertilizer and ories		οN	VN	I I	.0	Ī	0.2	1707		(mqq) əbiroul T		
l drilling wastes and from metal si of natutal deposits		oN	٨N	I I	1.0	7	Ī	1707	(mdd) mm			
	TYPICAL SOURCE	NOITAJON	-ніён л		JOMA DETEC	[WKDFG] (WCFG) bhg	[WBDF] WCF	UBSTANCE YEAR SAMPLED INIT OF MEASURE)				
									CIO	RECULATED SUBSTAN		
									2331	AATSOLIS CITTA ILISIO		

'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.

ΑN

Naturally occurring

Naturally occurring

Sunregulated contaminant monitoring helps U.S. EPA and the State Board determine where certain contaminants occur and whether the contaminants need to be regulated.

1 LRAA for Quarters 1	to 3 are base	d on results fr	om previous	dnarters				
Site 4 LRAA1	Sħ	ታታ	87	95				
₽ site 4	₽€	95	7 9	98				
Site 3 LRAA1	69	5 9	7 9	7 9				
Site 3	ΙS	SL	SL	95				
Site 2 LRAA1	ታታ	75	Δ þ	95				
Site 2	88	₽S	ς 9	87				
Site I LRAA1	7./	۷9	ī∠	0۷				
I site 1	63	64	64	65				
ГОСАТІОИ	ято тег	ято аиз	зкр атк	ATD HT4				
2021 TTHM RESULTS (µ8/L)								
J\gunus MCL in CCR units								
LLHW WCL			\gm 080.0	Γ				

not reported on this table.

A (J\gyl) besJ	ζ1=JΑ	2.0	67.0		30 sites sampled; 0 sites over AL		5019	οN		0	househo systems industri	l corrosion bld water J discharge al manufal of natural	Slumbing ss from cturers;
CONTAMINANT (CCR UNITS)	MCL	PHG	AVERAG			SANGE SAMPLE TAG		VIOLATION	BEOI SC	BER OF HOOLS JESTING SMPLING	TYPICAL	TYPICAL SOURCE	
Results Converted per section 64678 (c))	0	0	0	0	0	0	0	0	0	9.8	
Lab Reported Results			N	ND	ND	ND	ND	ND	ND	ND	ND	ND	9.8
AUG 2019 LEAD RESULTS (µg/L)			TIS	r at	SITE	SITE 3	SITE 4	SITE 5	SITE 6	7 3TIS	8 3TIS	6 3TIS	Of 3TIS
AL in CCR units							84 č I	П				0.00	
Lead DLR						J\gμ ζ					- 150		
Lead Action Level (90th percentile)					J\gm ₹10.0							-	
										-	1 8.		4
LEAD MONITORI	BINC									,			
(J\gu) MHTT	6L-87 LS V/N 08		1202	οN	Byproduc	t of drinki	ng water o	lisinfection	τ				
CONTAMINANT (CCR UNITS)	NAT (CCR PHG (OR MCLG) AVERAGE		RANGE	3J9MAS 3TAQ	NOLATION	TYPICAL S	OURCE						

8.11

1707

(mqq) snoits (ppm)

(mqq) snoinA lstoT

Test Results

