

City of Hughson 7018 Pine Street Hughson, CA 95326

For more information on your water quality or questions about this report, please contact the City of Hughson Public Works Department at (209) 883-4054 and ask for Jaime Velazquez. You are welcome to participate in the City Council meetings to voice any concerns regarding your drinking water. The City Council meets the second and fourth Monday of each month at 6:00pm at City Hall located at 7018 Pine Street, Hughson, CA.

Consumer Confidence Report

What's In Your Water?

This report contains important information about the quality of drinking water for the period of January 1, 2021 - December 31, 2021. Included are details about where your water comes from, data about what is in your water and how water tests on your drinking water compares to Federal and State drinking water standards.

The City of Hughson is committed to providing its residents with a reliable and safe supply of water for drinking, washing, irrigation, and other domestic uses. As part of this commitment, we regularly test the water from our wells and in the distribution system near your home. Last year, we had over 250 separate, independent *laboratory tests performed* on the City's water to ensure it met state and federal drinking water standards. With the exception of two contaminants, all of the test samples indicated that the water we provide to our customers meets current state and federal standards. The City is currently working on improvements to address these contaminants, and hopes to reach full compliance with drinking water standards later this year.



We encourage our non-English speaking residents to speak with someone who can assist them in reading this report. Este informe contiene información muy importante sobre su agua potable. Tradúzcalo ó hable con alguien que lo entienda bien.

Consumer Confidence Report



What's New? In 2021, the City of Hughson continued to make progress toward improving the drinking water system. Engineering work began on a new filtration system for Well 8 to remove 1,2,3-TCP, a new water treatment plant that removes arsenic is scheduled to be operational by end of 2022, and major water pipeline improvements are being planned for Whitmore Avenue. The City was provided a grant and low interest loan from the State of California to assist in the cost of building some of these facilities. This grant/loan program will help keep water rates down even as the City continues to make significant improvements to its water system.

Is My Water Safe?

Government regulations require that public water systems test their drinking water for contaminants, including bacteria, lead, arsenic, pesticides, and many other chemicals. Like the food we eat, all water (including bottled water) will have trace amounts of contaminants, but this does not necessarily mean it is a health risk if you eat or drink it. The federal and state governments have developed a list of many contaminants with known or suspected health concerns that may be found in public water supplies, and established limits on the amount of these contaminants that are allowed in drinking water. These limits are called *maximum contaminant levels* (MCLs). Based on independent laboratory testing last year, the City of Hughson's water was found to be in compliance with nearly all government drinking water standards. Arsenic in one well did not comply, and all three wells had elevated concentrations of 1,2,3-trichloropropane (1,2,3-TCP), a newly regulated contaminant as of 2018. The City is in the process of adding new treatment systems to remove the contaminants. Arsenic and 1.2.3-TCP are described in more detail inside this report.

What is the City doing to protect public health?

The City of Hughson's water is supplied solely with groundwater wells. Groundwater is water that has soaked into the soils from rains, rivers, and irrigation, and continuing downward, filling openings in beds of gravel and sand called aquifers. From here, wells are used to pump it out of the ground into the water system, and finally to your home or business. Along the way it can pick up contaminants. To protect public health, we regularly test it for naturally occurring and man-made contaminants. Water samples are taken every week from a number of locations throughout the water distribution system to check for bacteria. The samples are tested by private, state certified laboratories to see they meet all state and federal drinking water standards. Our active wells are operated and maintained by State licensed water treatment operators. Source assessments (evaluations of potential risk of contamination) have been conducted for each of the wells, and are available to the public upon request. Currently, our drinking water sources include three wells:

- Well 3 Starn Park
- Well 4 Hughson Elementary School
- ♦ Well 8 Euclid Avenue

2022 Drought Update

January, February, and March were the driest winter months in over 100 years! Every county in California is under an emergency drought proclamation. We can all do our part to help in this critical time with common sense practices, like turn the water off when brushing your teeth, run full loads in the clothes and dishwashers, take shorter showers, etc. Further, the City is following the State's Emergency Water Conservation Regulations, which restrict use of potable water for washing driveways, sidewalks, and patios, eliminating runoff from irrigation of landscapes, use of shut-off nozzles on hoses, and prohibit watering of ornamental commercial turf. For a complete list of water use restrictions, visit www.hughson.org/water-conservation-program/. You can also visit the State's website for current water conservation requirements, advice, and information at www.saveourwater.



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. More information about contaminants and potential health effects can be obtained by calling the USEPA's Safe Drinking Water Hot line (1-800-426-4791).

In order to ensure that tap water is safe to drink, the U.S. Environmental Protection Agency (USEPA) and the California Water Resources Control Board prescribe regulations that limit the amount of certain contaminants in water provided by public water systems. Department regulations also establish limits for contaminants in bottled water that must provide the same protection for public health. 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 means to lessen the risk of infection by Cryptosporidium and other microbial contaminants are available from the USEPA's Safe Drinking Water Hot line.

Normal sources of drinking 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, radio-active 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 storm-water 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; naturally occurring or the result of oil and gas production and mining activities.

LEAD when present in elevated levels 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 City of Hughson is responsible for providing high quality drinking water, but cannot control the variety of materials used in house and business 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 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 Hot line, or at http://www.epa.gov/safewater/lead.

NITRATE in drinking water at levels above 10 mg/L is a health risk for infants of less than six months of age. Such nitrate levels in drinking water can interfere with the capacity of the infant's blood to carry oxygen, resulting in a serious illness; symptoms include shortness of breath and blueness of the skin. Nitrate levels above 10 mg/L may also affect the ability of the blood to carry oxygen in other individuals, such as pregnant women and those with certain specific enzyme deficiencies. If you are caring for an infant, or you are pregnant, you should ask advice from your health care provider.

ARSENIC One (1) City well has arsenic concentrations slightly above the drinking water standard MCL (15.6 ppb). The City is in the process of constructing new wells that will be equipped with treatment systems to reduce arsenic levels to meet drinking water standards. The other wells meet the federal and state standard for arsenic, though they do 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.

1,2,3-TRICHLOROPROPANE (TCP) Three active City wells have concentrations of TCP above the MCL. (See Report.) The USEPA has stated that some people who drink water containing 1,2,3-TCP in excess of the MCL for many years may have an increased risk of getting certain cancers.

Definitions for abbreviations:

Maximum Contaminant Level (MCL) The highest level of a contaminant that is allowed in drinking water. Primary MCLs are set as close to the Public Health Goal 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.

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.

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

Action Level (AL) The concentration of a contaminant which, if exceeded, triggers treatment or other requirements that a water system



Water Quality Report

	-										
TABLE 1 - SAMPLING RESULTS SHOWING THE DETECTION OF COLIFORM BACTERIA											
Microbiological Contaminants	Highest No. of Detections (Month)	No. of Months in Violation	MCL				MCLG	Typical Source of Bacteria			
Total Coliform Bacteria	1	0	More than one sample in a month w			with a dotactic	on 0	Naturally present in the environment			
				. sample in	amonti	with a detection					
TABLE 2 - SAMPLING RESULTS SHOW											
Lead and Copper (and reporting units)	No. of Sites Sampled 2019	90 th Percentile Level Detected	Exceeding AL	o. Sites eeding AL AL PHG			Typical Source of Contaminant				
Lead (ppb)	28	8.3				nternal corrosion of household water plumbing systems; discharges from ndustrial manufacturers; erosion of natural deposits.					
Copper (ppb)	28	242	0 1300 300		Internal corrosion of household water plumbing systems; erosion of natural deposits; leaching from wood preservatives						
TABLE 3 - SAMPLING RESULTS FOR SODIUM AND HARDNESS											
Chemical or Constituents	Sample Date	Avg Level Detected	Range of Detections		MCL	PHG (MCL	G) Typi	cal Source of Contaminant			
Sodium (ppm)	2021	83	63 -94	3-94 None		None	Salt present in the v	vater and is generally naturally occuring			
Hardness (ppm)	2021	118	50 - 170 None		None	None	Sum of polyvalent cations present in the water, generally magnesium and calcium, and are usually naturally occuring.				
TABLE 4- DETECTION OF CONTAMINANTS WITH A PRIMARY DRINKING WATER STANDARD											
Chemical or Constituents	Sample Date	Avg Level Detected	Range of Detections	MCL [MR	RDL]	PHG (MCLG)	Тур	ical Source of Contaminant			
Arsenic (ppb)	2021	8.95	ND - 16.17	10		0.004	Erosion of natural deposits; runoff from orchards; glass and electronics				
Barium (ppb)	2021	154	51 - 220	1000		2000	production wastes Discharge of oil drilling wastes and from metal refineries; erosion of natural deposits				
Fluoride (ppm)	2021	ND	ND	2.0		1	Erosion of natural deposits; water additive which romotes strong discharge from fertilizer and aluminum factories				
Nitrate (as N, ppm)	2021	6.9	4.7 - 8.0	10		10	Runoff and leaching from sewage; erosion of natura	fertilizer use; leaching from septic tanks and I deposits			
Gross Alpha (pCi/L)	2021	7	ND - 14	15		0	Erosion of natural deposit				
Hexavalent Chromium (ppb)	2014	1.0	0.5 - 1.4	NA *		0.02		ating factories, leather tanneries, wood synthesis, and textile manufacturing facilities;			
Dibromochloropropane (DBCP) (ppt)	2020	25	25	200		(0)	Runoff/leaching from soil fumigant used on soybeans, cotton, pineapples, and orchards				
1,2,3 Trichloropropane (TCP) (ppt)	2021	38	ND - 66	5		0.7	Past use of soil fumigants	that contain 1,2,3-TCP as an impurity.			
TABLE 5 - DETECTION OF CONTAMIN	ANTS WITH A <u>S</u>	ECONDARY DR	INKING WATER	R STAND	ARD						
		Avg Level									
Chemical or Constituents	Sample Date	Detected	Range of Detections MC		MCL	PHG (MCL	G) Iypica	Source of Contaminant			
Chloride (ppm)	2021	51	11 - 110	10 500		N/A	Runoff/leaching from natural deposits; seawater influence				
Specific Conductance (uS/cm)	2021	484	348 - 658	58 1600		N/A	Substances that form ions when in water; seawater influence				
Sulfate (ppm)	2021	24	15 - 32	500		N/A	Runoff/leaching from natural deposits; industrial wastes				
Manganese (ppb)	2021	1	ND - 9.2		50	N/A	Naturally occurring mineral				
Total Dissolved Solids (TDS) (ppm)	2021	310	210 - 440)	1000	N/A	Runoff/leaching from	m natural deposits			
TABLE 6 - DETECTION OF UNREGULA	TED CONTAMIN	IANTS									
Chemical or Constituents	Sample Date	Avg Level Detected	Range of Detections		Noti	ification Level	el Typical Source of Contaminant				
Boron (ppb)	2012	130	ND - 300)		1000	Naturally occuring mineral				
Vanadium (ppb)	2012	16	6 - 21		50		Naturally occuring mineral				
TABLE 7 - DETECTION OF FEDERAL DI	SINFECTANT/ D		SYPRODUCT RU	JLE							
Chemical or Constituents	Sample Date	Avg Level Detected	Range of Detec	ctions MC		MCL (MRDL)	PHG (MCLG)	Typical Source of Contaminant			
TTHMs (Total Trihalomethanes) (ppb)	2021	0.65	ND - 1.3	80		80	N/A	By-product of drinking water disinfection			
Contaminants highlighted in bold indicate Ma and 13.5 ppb. * There is currently no MCL for								evels for 2021 were 8.9, 4.4			

Microbiological Contaminants	of Detections (Month)	No. of Months in Violation	MCL			MCLG	Typical Source of Bacteria	
otal Coliform Bacteria	1	0	More than one sample in a month with a detection		0	Naturally present in the environment		
ABLE 2 - SAMPLING RESULTS SH	OWING THE DETE	CTION OF LEAD	AND COPPER					
ead and Copper and reporting units)	No. of Sites Sampled 2019	90 th Percentile Level Detected	No. Sites Exceeding AL			Typical Source of	Typical Source of Contaminant	
ead (ppb)	28	8.3	0	15 0			ternal corrosion of household water plumbing systems; discharges from dustrial manufacturers; erosion of natural deposits.	
opper (ppb)	28	242			on of household water plumbing systems; erosion of natural ng from wood preservatives			
ABLE 3 - SAMPLING RESULTS FO	R SODIUM AND H					deposits, lea	ching north wood preserva	lives
hemical or Constituents	Sample Date	Avg Level Detected	Range of Dete	ections I	MCL	PHG (MCLG) Typic	al Source of Contaminant
odium (ppm)	2021	83	63 -94	63 -94 None		None	Salt present in the water and is generally naturally occuring	
ardness (ppm)	2021	118	50 - 170	50 - 170 None		None	Sum of polyvalent cations present in the water, generally magnesium and calcium, and are usually naturally occuring.	
ABLE 4- DETECTION OF CONTAN	IINANTS WITH A <u>F</u>	<u>PRIMARY</u> DRINK	ING WATER S	TANDARD			indgriesiani and cale	initi, and are usually hatarany occurring.
nemical or Constituents	Sample Date	Avg Level Detected	Range of Detections	MCL [MRDL] PH	G (MCLG)	Туріс	al Source of Contaminant
rsenic (ppb)	2021	8.95	ND - 16.17	10			Erosion of natural deposits production wastes	s; runoff from orchards; glass and electroni
arium (ppb)	2021	154	51 - 220	1000		2000	•	stes and from metal refineries; erosion of
luoride (ppm)	2021	ND	ND	2.0			Erosion of natural deposits discharge from fertilizer ar	; water additive which romotes strong tee nd aluminum factories
litrate (as N, ppm)	2021	6.9	4.7 - 8.0	10			Runoff and leaching from t sewage; erosion of natural	fertilizer use; leaching from septic tanks an deposits
iross Alpha (pCi/L)	2021	7	ND - 14	15		0	Erosion of natural deposits	i
lexavalent Chromium (ppb)	2014	1.0	0.5 - 1.4	NA *				ting factories, leather tanneries, wood ynthesis, and textile manufacturing facilitie
ibromochloropropane (DBCP) (ppt)	2020	25	25	200			Runoff/leaching from soil pineapples, and orchards	fumigant used on soybeans, cotton,
,2,3 Trichloropropane (TCP) (ppt)	2021	38	ND - 66	D- 66 5		0.7	Past use of soil fumigants	that contain 1,2,3-TCP as an impurity.
ABLE 5 - DETECTION OF CONTAN	INANTS WITH A	SECONDARY DR	INKING WATE	R STANDAR	D			
hemical or Constituents	Sample Date	Avg Level Detected	Range of Dete	ections N	NCL	PHG (MCLG) Typical	Source of Contaminant
nloride (ppm)	2021	51	11 - 110)	500	N/A	Runoff/leaching from	n natural deposits; seawater influence
pecific Conductance (uS/cm)	2021	484	348 - 65	658 1600		N/A	Substances that form ions when in water; seawater influence	
ulfate (ppm)	2021	24	15 - 32	500		N/A	Runoff/leaching from	n natural deposits; industrial wastes
langanese (ppb)	2021	1	ND - 9.2	2	50	N/A	Naturally occurring mineral	
otal Dissolved Solids (TDS) (ppm)	2021	310	210 - 44	0 1	000	N/A	Runoff/leaching from	n natural deposits
ABLE 6 - DETECTION OF UNREGU	JLATED CONTAMI	NANTS						
hemical or Constituents	Sample Date	Avg Level Detected	Range of Dete	nge of Detections		ation Level	Т	ypical Source of Contaminant
oron (ppb)	2012	130	ND - 30	0	10			Naturally occuring mineral
anadium (ppb)	2012	16	6 - 21		50			Naturally occuring mineral
ABLE 7 - DETECTION OF FEDERAI	DISINFECTANT/	DISINFECTANT E	SYPRODUCT R	ULE				
hemical or Constituents	Sample Date	Avg Level Detected	Range of Dete			L (MRDL)	PHG (MCLG)	Typical Source of Contaminant
THMs (Total Trihalomethanes) (ppb)	2021	0.65	ND - 1.3		80		N/A	By-product of drinking water disinfecti
ontaminants highlighted in bold indicat								

Microbiological Contaminants	Highest No. of Detections (Month)	No. of Months in Violation		MCL			MCLG	Typical Source of Bacteria
Total Coliform Bacteria	1	0	More than one sample in a month with a detection		n 0	Naturally present in the environment		
TABLE 2 - SAMPLING RESULTS SH	OWING THE DETE	CTION OF LEAD	AND COPPER					
Lead and Copper (and reporting units)	No. of Sites Sampled 2019	90 th Percentile Level Detected	No. Sites Exceeding AL	AL PHG		Typical Source of	f Contaminant	
Lead (ppb)	28	8.3	0	15	0.2	Internal corrosion of household water plumbing systems; discharges from industrial manufacturers; erosion of natural deposits.		
Copper (ppb)	28	242				on of household water plumbing systems; erosion of natural ng from wood preservatives		
TABLE 3 - SAMPLING RESULTS FO	R SODIUM AND H					deposits, iez	ichning from wood preserva	111763
Chemical or Constituents	Sample Date	Avg Level Detected	Range of Dete	ections	MCL	PHG (MCLO	5) Typic	cal Source of Contaminant
Sodium (ppm)	2021	83	63 -94	None		None	Salt present in the water and is generally naturally occuring	
lardness (ppm)	2021	118	50 - 170	0 None		None	Sum of polyvalent cations present in the water, generally magnesium and calcium, and are usually naturally occuring.	
ABLE 4- DETECTION OF CONTAN				TANDARD				, , , , , , , , , , , , , , , , , , , ,
Chemical or Constituents	Sample Date	Avg Level Detected	Range of Detections	MCL [MRD	_] Pł	HG (MCLG)	Турі	cal Source of Contaminant
Arsenic (ppb)	2021	8.95	ND - 16.17	10		0.004	Erosion of natural deposit production wastes	s; runoff from orchards; glass and electronics
Barium (ppb)	2021	154	51 - 220	1000		2000	Discharge of oil drilling wastes and from metal refineries; erosi natural deposits	
Fluoride (ppm)	2021	ND	ND	2.0		1	Erosion of natural deposit discharge from fertilizer an	s; water additive which romotes strong teeth nd aluminum factories
vitrate (as N, ppm)	2021	6.9	4.7 - 8.0	10		10	Runoff and leaching from sewage; erosion of natura	fertilizer use; leaching from septic tanks and I deposits
Gross Alpha (pCi/L)	2021	7	ND - 14	15		0	Erosion of natural deposit	S
łexavalent Chromium (ppb)	2014	1.0	0.5 - 1.4	NA *		0.02		iting factories, leather tanneries, wood ynthesis, and textile manufacturing facilities,
Dibromochloropropane (DBCP) (ppt)	2020	25	25	200		(0)	Runoff/leaching from soil pineapples, and orchards	fumigant used on soybeans, cotton, s
1,2,3 Trichloropropane (TCP) (ppt)	2021	38	ND - 66	ND - 66 5		0.7	Past use of soil fumigants	that contain 1,2,3-TCP as an impurity.
ABLE 5 - DETECTION OF CONTAN	/INANTS WITH A	<u>SECONDARY</u> DR	INKING WATE	R STANDA	RD			
hemical or Constituents	Sample Date	Avg Level Detected	Range of Dete	ections	MCL	PHG (MCLO	5) Typical	Source of Contaminant
hloride (ppm)	2021	51	11 - 110)	500	N/A	Runoff/leaching from	n natural deposits; seawater influence
pecific Conductance (uS/cm)	2021	484	348 - 65	58 1600		N/A	Substances that form	n ions when in water; seawater influence
ulfate (ppm)	2021	24	15 - 32		500	N/A	Runoff/leaching from natural deposits; industrial wastes	
/anganese (ppb)	2021	1	ND - 9.2	2	50	N/A	Naturally occurring r	nineral
otal Dissolved Solids (TDS) (ppm)	2021	310	210 - 44	0	1000	N/A	Runoff/leaching from	n natural deposits
ABLE 6 - DETECTION OF UNREGU	JLATED CONTAMI	NANTS						
hemical or Constituents	Sample Date	Avg Level Detected	Range of Dete	Detections Not		cation Level	-	Typical Source of Contaminant
Boron (ppb)	2012	130	ND - 30	0	1000 50			Naturally occuring mineral
/anadium (ppb)	2012	16	6 - 21					Naturally occuring mineral
ABLE 7 - DETECTION OF FEDERAL	L DISINFECTANT/		BYPRODUCT R	ULE				
hemical or Constituents	Sample Date	Avg Level Detected	Range of Dete	ections	M	CL (MRDL)	PHG (MCLG)	Typical Source of Contaminant
THMs (Total Trihalomethanes) (ppb)	2021	0.65	ND - 1.3		80		N/A	By-product of drinking water disinfectio
	e MCL exceedence. A							

Chemical or Constituents	Sample Date	Avg Level Detected	Range of Detections	
TTHMs (Total Trihalomethanes) (ppb)	2021	0.65	ND - 1.3	

Water quality data for the period of January 1 - December 31, 2021