

**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 7:00pm 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, 2017 - December 31, 2017. 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 performed over 430 separate tests on the water to ensure it is meeting state and federal drinking water standards. With the exception of one mineral in one well, all of the test samples indicated that the water we provide to our customers meets all current state and federal standards. The mineral that was elevated in one well was only slightly elevated, and that well is used least for our water supply. Two (2) new wells planned for construction this year will address the elevated mineral content by including construction of a new water treatment facility.

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?



The City of Hughson has been approved to move forward with construction of two new municipal water wells and a water treatment facility. The new wells will replace older wells that were removed from service due to contaminants found in those wells. The City was provided with a grant and low interest loan from the State of California to assist in the cost to build the facilities. Construction will begin this summer, and should be producing water for the community by 2019.

THINK

CONSERVE

WATER

# Is My Water Safe?

Government regulations mandate that public water systems test their drinking water for numerous 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 drink it. Government regulations have established acceptable amounts of contaminants that water can have and still be safe to drink, called maximum contaminant levels (MCLs). Based on independent laboratory testing, last year the City of Hughson's water was found to be compliant with nearly all state and drinking water standards. (See "Arsenic" on the inside of this report). Some City of Hughson's wells contain detectable concentrations of the contaminant 1,2,3-trichloropropane (1,2,3-TCP) at levels in excess of the State's new MCL for 1,2,3-TCP. The City is currently studying treatment options and intends to comply with the MCL once it is adopted.

### 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 aguifers. 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 weekly from various locations throughout the water distribution system to check for bacteria. The samples are tested by state certified laboratories to see that 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. Our drinking water sources include three wells:

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

## Water Conservation Update

This spring, California adopted new statewide water policies toward its effort to make water conservation a way of life. The new legislation focuses on indoor use (i.e. showers, toilets, washing machines) by setting standards that apply in all years, not just during a drought. According to the drafters of the new legislation, this is an "effort to reengineer water policy away from crisis management and toward a 21st century approach". The concept is to integrate water use efficiency as an alternative to building expensive water facilities, which is often a more cost-effective way to achieve water reliability. Per the legislation, by 2022, all Californians will be required to use no more than 55 gallons per person per day for indoor uses. Typically, this goal is not be difficult to achieve if homes are retrofitted with water conserving toilets, shower heads, and washing machines. Visit: http://wateruseitwisely.com/ for water conservation tips.

Drinkingwater, including bottledwater, 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 Hotline (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 Hotline.

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 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 Hotline, 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 (See Report). 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.

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 must follow.

NA: Not Applicable ND: Non Detectable ppb: parts per billion or micrograms per liter (ug/L) ppm: parts per million or milligrams per liter (mg/L) pCi/l: picocuries per liter (measurement of radiation)



## Water Quality Report Water quality data for the period of January 1 - December 31, 2017

TABLE 1 - SAMPLING RESULTS SHOW			M BACTERIA						
Microbiological Contaminants	Highest No. of Detections (Month	No. of Months ) in Violation		M	ICL			MCLG	Typical Source of Bacteria
Total Coliform Bacteria	0	0	More than one	e sample in	a month	with a de	tection	0	Naturally present in the environment
TABLE 2 - SAMPLING RESULTS SHO	OWING THE DETE	CTION OF LEAD	O AND COPPER						
Lead and Copper (and reporting units)	No. of Sites Sampled 2016	90 <sup>th</sup> Percentile Level Detected	No. Sites Exceeding AL	AL	PHG			Typical Source of	Contaminant
Lead (ppb)	20	ND	0	15	0.2	Internal corrosion of household water plumbing systems; dis industrial manufacturers; erosion of natural deposits.			
Copper (ppb)	20	108	0	1300	300			n of household water p g from wood preserva	lumbing systems; erosion of natural tives
TABLE 3 - SAMPLING RESULTS FOR	SODIUM AND H	IARDNESS							
Chemical or Constituents	Sample Date	Avg Level Detected	Range of Dete	ctions	MCL	PHG	(MCLG)	Туріса	al Source of Contaminant
Sodium (ppm)	2015	74.8	62.5 - 81.	6	None	None None		Salt present in the water and is generally naturally occuring	
Hardness (ppm)	2015	102	46 - 140		None	N	one		tions present in the water, generally ium, and are usually naturally occuring.
TABLE 4- DETECTION OF CONTAM	INANTS WITH A <u>I</u>	PRIMARY DRIN	KING WATER ST	ANDARI	D			5	
Chemical or Constituents	Sample Date	Avg Level Detected R	ange of Detections	MCL [MF	RDL] PH	ig (Mclg)	)	Typical Source of Co	ntaminant
Arsenic (ppb)	2017	9.1	4.5 - 16.6	10		0.004		of natural deposits; run	off from orchards; glass and electronics production
Barium (ppb)	2015	0.11	0.0 - 160	1000	)	2000			and from metal refineries; erosion of natural
Fluoride (ppm)	2015	0.14	0.12 - 0.19	2.0		1			ter additive which romotes strong teeth; discharge
Nitrate (as N, ppm)	2017	4.1	0.7 - 6.7	10		10	Runoff a	nd leaching from fertil	izer use; leaching from septic tanks and sewage;
Gross Alpha (pCi/L)	2010/2012/2016	2.5	0.5 - 4.5	15		0		of natural deposits of natural deposits	
Hexavalent Chromium (ppb)	2014	1.0	0.5 - 1.4	NA *	4	0.02			factories, leather tanneries, wood preservation,
1,2-dibromo-3-chloropropane (DBCP) (ppt)	2017	48	0 - 120	200		(0)		eaching from soil fumi	manufacturing facilities; erosion gant used on soybeans, cotton, pineapples and
1,2,3 Trichloropropane (TCP) (ppt)	2017	28.8	7.4 - 48	5		0.7	Discharg hazardo	ge from industrial and a us waste sites; used as	gricultural chemical factories; leaching from cleaning and maintenance solvent, paint and varnish
TABLE 5 - DETECTION OF CONTAM	INANTS WITH A	SECONDARY DI	RINKING WATER	R STAND	ARD			mpounds and pesticid	reasing agent; byproduct during the production of es.
Chemical or Constituents	Sample Date	Avg Level Detected	Range of Dete	ctions	MCL	PHG	(MCLG)	Typical	Source of Contaminant
chemical of constituents	Sumple Date	Detected	hange of bete		MCL	ma	(MCLO)	Typical	
Chloride (ppm)	2015	46.2	17.8 - 67.2	7	500	Ν	I/A	Runoff/leaching from	natural deposits; seawater influence
Specific Conductance (uS/cm)	2015	572	377 - 684	ŀ	1600	Ν	I/A	Substances that form	ions when in water; seawater influence
Sulfate (ppm)	2015	20.6	7.7 - 28.7		500	Ν	I/A	Runoff/leaching from	natural deposits; industrial wastes
Manganese (ppb)	2015	32.4	ND - 97.3	1	50	Ν	I/A	Naturally occurring m	ineral
Total Dissolved Solids (TDS) (ppm)	2015	361	240 - 423	1	1000	Ν	I/A	Runoff/leaching from	natural deposits
TABLE 6 - DETECTION OF UNREGU	LATED CONTAMI	NANTS							
Chemical or Constituents	Sample Date	Avg Level Detected	d Range of Dete	ctions	Not	ification L	evel	г	ypical Source of Contaminant
Boron (ppb)	2012	130	ND - 300	)		1000		Naturally occuring mineral	
Vanadium (ppb)	2012	16	6 - 21			50		Naturally occuring mineral	
Note: Unregulated contaminants have no MCI	, but help USEPA and t	he State Water Resou	irces Control Board to	determine	e where co	ertain con	taminants	occur and whether the	cotaminants need to be regulated.
TABLE 7 - DETECTION OF FEDERAL	DISINFECTANT/		BYPRODUCT RU	JLE					
Chemical or Constituents	Sample Date	Avg Level Detected	Range of Dete	ctions		MCL (MRI	DL)	PHG (MCLG)	Typical Source of Contaminant
TTHMs (Total Trihalomethanes) (ppb)	2017	ND	ND			80		N/A	By-product of drinking water disinfection
* There is currently no MCL for hexavalent	t chromium The pre	vious MCL of 0.01	0 mg/L was withd	awn on S	eptembe	r 11, 201'	7		

Microbiological Contaminants	WING THE DETECTI Highest No. of Detections (Month)	No. of Months		MC	Ľ		MCLG	Typical Source of Bacteria
Total Coliform Bacteria	0	0	More than one	sample in a	i month wi	th a detection	0	Naturally present in the environment
TABLE 2 - SAMPLING RESULTS SH	OWING THE DETE	CTION OF LEA	D AND COPPER					
Lead and Copper and reporting units)	No. of Sites Sampled 2016	90 <sup>th</sup> Percentile Level Detected	No. Sites Exceeding AL	AL	PHG		Typical Source of	Contaminant
Lead (ppb)	20	ND	0	15	0.2	Internal corrosion of household water plumbing systems; discharges fro industrial manufacturers; erosion of natural deposits.		
Copper (ppb)	20	108	0	1300	300		ion of household water p ing from wood preserva	blumbing systems; erosion of natural tives
TABLE 3 - SAMPLING RESULTS FO	R SODIUM AND H	ARDNESS						
Chemical or Constituents	Sample Date	Avg Level Detected	Range of Dete	ctions	MCL	PHG (MCLG)	Туріс	al Source of Contaminant
Sodium (ppm)	2015	74.8	62.5 - 81.	б	None	None	Salt present in the water and is generally naturally occuring	
Hardness (ppm)	2015	102	46 - 140		None	None		ations present in the water, generally ium, and are usually naturally occuring.
TABLE 4- DETECTION OF CONTAM	IINANTS WITH A <u>F</u>	RIMARY DRIN	KING WATER ST	ANDARD				
Chemical or Constituents	Sample Date	Avg Level Detected	Range of Detections	MCL [MRI	DL] PHG	(MCLG)	Typical Source of Co	ntaminant
Arsenic (ppb)	2017	9.1	4.5 - 16.6	10	0.			noff from orchards; glass and electronics produc
arium (ppb)	2015	0.11	0.0 - 160	1000	20		arge of oil drilling wastes	and from metal refineries; erosion of natural
luoride (ppm)	2015	0.14	0.12 - 0.19	2.0				ter additive which romotes strong teeth; disch
itrate (as N, ppm)	2017	4.1	0.7 - 6.7	10		10 Runofi	f and leaching from ferti	lizer use; leaching from septic tanks and sewag
iross Alpha (pCi/L)	2010/2012/2016	2.5	0.5 - 4.5	15			n of natural deposits n of natural deposits	
lexavalent Chromium (ppb)	2014	1.0	0.5 - 1.4	NA *	0			factories, leather tanneries, wood preservation,
,2-dibromo-3-chloropropane (DBCP) (ppt)	2017	48	0 - 120	200	(		f/leaching from soil fumi	manufacturing facilities; erosion gant used on soybeans, cotton, pineapples and
1,2,3 Trichloropropane (TCP) (ppt)	2017	28.8	7.4 - 48	5	(	).7 Discha hazaro	arge from industrial and a lous waste sites; used as	agricultural chemical factories; leaching from cleaning and maintenance solvent, paint and v
TABLE 5 - DETECTION OF CONTAN	/INANTS WITH A	SECONDARY D	RINKING WATEI	R STANDA	RD		er, and cleaning and dec compounds and pesticio	greasing agent; byproduct during the production les.
		Avg Level						
Chemical or Constituents	Sample Date	Detected	Range of Dete	ctions	MCL	PHG (MCLG)	Typical	Source of Contaminant
Chloride (ppm)	2015	46.2	17.8 - 67.	7	500	N/A	Runoff/leaching from	n natural deposits; seawater influence
pecific Conductance (uS/cm)	2015	572	377 - 684		1600	N/A	Substances that form	n ions when in water; seawater influence
	2015	20.6	7.7 - 28.7		500	N/A	Runoff/leaching from	n natural deposits; industrial wastes
Sulfate (ppm)					50	N/A	Naturally occurring n	nineral
	2015	32.4	ND - 97.3		50			
Aanganese (ppb)	2015 2015	32.4 361	ND - 97.3 240 - 423		1000	N/A	Runoff/leaching from	n natural deposits
Sulfate (ppm) Manganese (ppb) Fotal Dissolved Solids (TDS) (ppm) TABLE 6 - DETECTION OF UNREGU	2015	361					Runoff/leaching from	n natural deposits
Vanganese (ppb) Fotal Dissolved Solids (TDS) (ppm)	2015	361	240 - 423		1000			n natural deposits Typical Source of Contaminant
Aanganese (ppb) Tatal Dissolved Solids (TDS) (ppm) TABLE 6 - DETECTION OF UNREGU	2015 JLATED CONTAMI	361 NANTS	240 - 423	ctions	1000 Notific	N/A		
Manganese (ppb) Total Dissolved Solids (TDS) (ppm) TABLE 6 - DETECTION OF UNREGU Chemical or Constituents Boron (ppb)	2015 JLATED CONTAMI Sample Date	361 NANTS Avg Level Detecte	240 - 423 d Range of Dete	ctions	1000 Notific	N/A ation Level		Typical Source of Contaminant
Vanganese (ppb) Fotal Dissolved Solids (TDS) (ppm)	2015 JLATED CONTAMI Sample Date 2012 2012	361 NANTS Avg Level Detecte 130 16	240 - 423 ed Range of Dete ND - 300 6 - 21	ctions	1000 Notific	N/A ation Level 1000 50		Typical Source of Contaminant Naturally occuring mineral Naturally occuring mineral
Vanganese (ppb) Fotal Dissolved Solids (TDS) (ppm) TABLE 6 - DETECTION OF UNREGU Chemical or Constituents Boron (ppb) Vanadium (ppb)	2015 JLATED CONTAMI Sample Date 2012 2012 CL, but help USEPA and th	361 NANTS Avg Level Detecte 130 16 ne State Water Reso DISINFECTANT	240 - 423 ed Range of Dete ND - 300 6 - 21 surces Control Board to	ctions	1000 Notific	N/A ation Level 1000 50		Typical Source of Contaminant Naturally occuring mineral Naturally occuring mineral
Vlanganese (ppb) Fotal Dissolved Solids (TDS) (ppm) TABLE 6 - DETECTION OF UNREGU Chemical or Constituents Boron (ppb) Vanadium (ppb) Note: Unregulated contaminants have no MC	2015 JLATED CONTAMI Sample Date 2012 2012 CL, but help USEPA and th	361 NANTS Avg Level Detecte 130 16 ne State Water Reso	240 - 423 ed Range of Dete ND - 300 6 - 21 surces Control Board to	ctions determine JLE	1000 Notific	N/A ation Level 1000 50		Typical Source of Contaminant Naturally occuring mineral Naturally occuring mineral

TABLE 1 - SAMPLING RESULTS SHOW	<b>WING THE DETECTIO</b> Highest No. of	ON OF COLIFO No. of Months	RM BACTERIA						
Microbiological Contaminants	Detections (Month)	in Violation		M	ΞL			MCLG	Typical Source of Bacteria
Total Coliform Bacteria	0	0	More than one	e sample in	a month	with a dete	ction	0	Naturally present in the environment
TABLE 2 - SAMPLING RESULTS SHO	OWING THE DETE	CTION OF LEA	D AND COPPER						
Lead and Copper (and reporting units)	No. of Sites Sampled 2016	90 <sup>th</sup> Percentile Level Detected		AL	PHG			Typical Source of	Contaminant
Lead (ppb)	20	ND	0	15	0.2			n of household water p acturers; erosion of na	olumbing systems; discharges from tural deposits.
Copper (ppb)	20	108	0	1300	300			n of household water p g from wood preserva	olumbing systems; erosion of natural tives
TABLE 3 - SAMPLING RESULTS FO	R SODIUM AND H	ARDNESS							
Chemical or Constituents	Sample Date	Avg Level Detected	Range of Dete	ections	MCL	PHG (N	1CLG)	Туріс	al Source of Contaminant
Sodium (ppm)	2015	74.8	62.5 - 81.	.6	None	None None		Salt present in the water and is generally naturally occuring	
Hardness (ppm)	2015	102	46 - 140	)	None	Nor	ne		ations present in the water, generally ium, and are usually naturally occuring.
TABLE 4- DETECTION OF CONTAM	INANTS WITH A <u>P</u>	RIMARY DRIN	NKING WATER ST		)				
Chemical or Constituents	Sample Date	Avg Level Detected	Range of Detections	MCL [MR	DL] PH	ig (MCLG)		Typical Source of Co	ntaminant
Arsenic (ppb)	2017	9.1	4.5 - 16.6	10				of natural deposits; rur	noff from orchards; glass and electronics production
Barium (ppb)	2015	0.11	0.0 - 160	1000		2000			and from metal refineries; erosion of natural
Fluoride (ppm)	2015	0.14	0.12 - 0.19	2.0		1			ter additive which romotes strong teeth; discharge
Nitrate (as N, ppm)	2017	4.1	0.7 - 6.7	10		10	Runoff a		izer use; leaching from septic tanks and sewage;
Gross Alpha (pCi/L)	2010/2012/2016	2.5	0.5 - 4.5	15				of natural deposits	
Hexavalent Chromium (ppb)	2014	1.0	0.5 - 1.4	NA *					factories, leather tanneries, wood preservation, manufacturing facilities; erosion
1,2-dibromo-3-chloropropane (DBCP) (ppt)	2017	48	0 - 120	200		(0)		eaching from soil fumi	gant used on soybeans, cotton, pineapples and
1,2,3 Trichloropropane (TCP) (ppt)	2017	28.8	7.4 - 48	5			hazardo	us waste sites; used as	agricultural chemical factories; leaching from cleaning and maintenance solvent, paint and varnish greasing agent; byproduct during the production of
TABLE 5 - DETECTION OF CONTAM	INANTS WITH A	SECONDARY D	RINKING WATE	R STAND	ARD			mpounds and pesticid	
Chemical or Constituents	Sample Date	Avg Level Detected	Range of Dete	ections	MCL	PHG (M		Typical	Source of Contaminant
Chemical of Constituents	Sample Date	Delected	hange of Dete	cuons	NICL	FIIG (W	icid)	Турісаг	
Chloride (ppm)	2015	46.2	17.8 - 67.	7	500	N/#	Ą	Runoff/leaching from	n natural deposits; seawater influence
Specific Conductance (uS/cm)	2015	572	377 - 684	1	1600	N//	٩	Substances that form	i ions when in water; seawater influence
Sulfate (ppm)	2015	20.6	7.7 - 28.7	7	500	N//	Ą	Runoff/leaching from	n natural deposits; industrial wastes
Manganese (ppb)	2015	32.4	ND - 97.3	3	50	N//	٩	Naturally occurring n	nineral
Total Dissolved Solids (TDS) (ppm)	2015	361	240 - 423	3	1000	N//	٩	Runoff/leaching from	n natural deposits
TABLE 6 - DETECTION OF UNREGU	JLATED CONTAMI	NANTS							
Chemical or Constituents	Sample Date	Avg Level Detecte	ed Range of Dete	ections	Not	ification Lev	/el	1	Typical Source of Contaminant
Boron (ppb)	2012	130	ND - 300	)		1000		Naturally occuring mineral	
Vanadium (ppb)	2012	16	6 - 21			50			Naturally occuring mineral
Note: Unregulated contaminants have no MC	L, but help USEPA and th	ne State Water Resc	ources Control Board to	o determine	where ce	ertain conta	minants	occur and whether the	cotaminants need to be regulated.
TABLE 7 - DETECTION OF FEDERAL	L DISINFECTANT/ I		F BYPRODUCT R	ULE					
Chemical or Constituents	Sample Date	Avg Level Detected	Range of Dete	ctions		MCL (MRDL	.)	PHG (MCLG)	Typical Source of Contaminant
TTHMs (Total Trihalomethanes) (ppb)	2017	ND	ND			80		N/A	By-product of drinking water disinfection
* There is currently no MCL for hexavalen	t chromium. The pre	vious MCL of 0.0	10 mg/L was withd	rown on Se	ntembe	r 11 2017			

Aicrobiological Contaminants	Highest No. of Detections (Month)	No. of Months in Violation		M	CL		MCLG	Typical Source of Bacteria
otal Coliform Bacteria	0	0	More than on	e sample in	a month w	ith a detection	0	Naturally present in the environment
TABLE 2 - SAMPLING RESULTS SH	OWING THE DETE	CTION OF LEA	D AND COPPER					
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Copper (ppb)	20	108	0	1300	300		on of household water plumbing systems; erosion of natural ng from wood preservatives	
TABLE 3 - SAMPLING RESULTS FO	R SODIUM AND H	ARDNESS						
Chemical or Constituents	Sample Date	Avg Level Detected	Range of Dete	ections	MCL	PHG (MCLG)	Туріс	al Source of Contaminant
odium (ppm)	2015	74.8	62.5 - 81	.6	None	None	Salt present in the water and is generally naturally occuring	
Hardness (ppm)	2015	102	46 - 140	)	None	None		ations present in the water, generally :ium, and are usually naturally occuring.
ABLE 4- DETECTION OF CONTAM	IINANTS WITH A <u>F</u>	RIMARY DRIN	IKING WATER ST	ANDAR	)			
hemical or Constituents	Sample Date	Avg Level Detected	Range of Detections	MCL [MR	DL] PHG	(MCLG)	Typical Source of Co	ntaminant
rsenic (ppb)	2017	9.1	4.5 - 16.6	10	C			noff from orchards; glass and electronics produ
arium (ppb)	2015	0.11	0.0 - 160	1000	2		arge of oil drilling wastes	and from metal refineries; erosion of natural
uoride (ppm)	2015	0.14	0.12 - 0.19	2.0				iter additive which romotes strong teeth; disch
trate (as N, ppm)	2017	4.1	0.7 - 6.7	10		10 Runo	ff and leaching from ferti	lizer use; leaching from septic tanks and sewag
ross Alpha (pCi/L)	2010/2012/2016	2.5	0.5 - 4.5	15			on of natural deposits on of natural deposits	
exavalent Chromium (ppb)	2014	1.0	0.5 - 1.4	NA *				factories, leather tanneries, wood preservation
2-dibromo-3-chloropropane (DBCP) (ppt)	2017	48	0 - 120	200			ff/leaching from soil fumi	manufacturing facilities; erosion gant used on soybeans, cotton, pineapples and
,2,3 Trichloropropane (TCP) (ppt)	2017	28.8	7.4 - 48	5		hazai	dous waste sites; used as	agricultural chemical factories; leaching from cleaning and maintenance solvent, paint and v
ABLE 5 - DETECTION OF CONTAM	AINANTS WITH A	SECONDARY D	RINKING WATE	R STAND	ARD		ver, and cleaning and dec compounds and pesticio	greasing agent; byproduct during the production les.
		Avg Level					Trusteel	Course of Courses in an t
hemical or Constituents	Sample Date	Detected	Range of Dete	ctions	MCL	PHG (MCLG)	Турісаї	Source of Contaminant
hloride (ppm)	2015	46.2	17.8 - 67.	7	500	N/A	Runoff/leaching from	n natural deposits; seawater influence
pecific Conductance (uS/cm)	2015	572	377 - 684	1	1600	N/A	Substances that form	n ions when in water; seawater influence
ulfate (ppm)	2015	20.6	7.7 - 28.7	7	500	N/A	Runoff/leaching from	n natural deposits; industrial wastes
(an ach aca (mmh)	2015	32.4	ND - 97.3	3	50	N/A	Naturally occurring n	nineral
langanese (ppb)	2015	361	240 - 423	3	1000	N/A	Runoff/leaching from	n natural deposits
	2015							
otal Dissolved Solids (TDS) (ppm)		NANTS						
otal Dissolved Solids (TDS) (ppm)	JLATED CONTAMI	NANTS Avg Level Detecte	d Range of Dete	ections	Notifi	cation Level		Typical Source of Contaminant
ABLE 6 - DETECTION OF UNREGU	JLATED CONTAMI		d Range of Dete ND - 300		Notifi	cation Level 1000		Typical Source of Contaminant Naturally occuring mineral
ABLE 6 - DETECTION OF UNREGUNATION OF UNREGUNATION OF UNREGUNATION OF UNREGUNATION (ppb)	JLATED CONTAMI Sample Date	Avg Level Detecte	, in the second s		Notifi			
ABLE 6 - DETECTION OF UNREGU hemical or Constituents oron (ppb) anadium (ppb)	JLATED CONTAMI Sample Date 2012 2012	Avg Level Detecte 130 16	ND - 300 6 - 21	)		1000 50		Naturally occuring mineral Naturally occuring mineral
Aanganese (ppb) iotal Dissolved Solids (TDS) (ppm) IABLE 6 - DETECTION OF UNREGL Chemical or Constituents Boron (ppb) /anadium (ppb) Note: Unregulated contaminants have no MC IABLE 7 - DETECTION OF FEDERAL	JLATED CONTAMI Sample Date 2012 2012 CL, but help USEPA and th	Avg Level Detecte 130 16 ne State Water Reso	ND - 300 6 - 21 urces Control Board to	) o determine		1000 50		Naturally occuring mineral Naturally occuring mineral
iotal Dissolved Solids (TDS) (ppm) <b>TABLE 6 - DETECTION OF UNREGU</b> Chemical or Constituents Boron (ppb) /anadium (ppb) Note: Unregulated contaminants have no MC	JLATED CONTAMI Sample Date 2012 2012 CL, but help USEPA and th	Avg Level Detecte 130 16 ne State Water Reso	ND - 300 6 - 21 urces Control Board to	) o determine <b>ULE</b>	where cert	1000 50		Naturally occuring mineral Naturally occuring mineral

Chemical or Constituents	Sample Date	Avg Level Detected	Range of Detections	
TTHMs (Total Trihalomethanes) (ppb)	2017	ND	ND	

\* There is currently no MCL for hexavalent chromium. The previous MCL of 0.010 mg/L was withdrawn on September 11, 2017.