# 2018 Consumer Confidence Report

We test the drinking water quality for many constituents as required by state and federal regulations. This report shows the results of our monitoring for the period of January 1 to December 31, 2018 and may include earlier monitoring data. Este informe contiene información muy importante sobre su agua para beber. Favor de comunicarse [Western Hills Water District ] a [ (209) 895-9493 ] para asistirlo en español.. Surface water from the California Aqueduct Type of water source(s) in use: Pump Station # 1 is located in Patterson, California on Oak flat road approximately Name & general location of source(s): 35 miles south of the Harvey O Banks pumping station. Drinking Water Source Assessment information: Brown & Caldwell Engineering completed the DWSA in April 2002 Time and place of regularly scheduled board 4:00 PM on the Second Wednesday of each month at Diablo Grande Golf Course Clubhouse located at 9521 Morton Davis Drive Patterson, California meetings for public participation: 95363 For more information, contact: Jerry Phillips, General Manager Phone: (209) 895-9493 **TERMS USED IN THIS REPORT** Maximum Contaminant Level (MCL): The highest level of Secondary Drinking Water Standards (SDWS): MCLs for contaminants that affect taste, odor, or appearance of the drinking a contaminant that is allowed in drinking water. Primary MCLs are set as close to the PHGs (or MCLGs) as is water. Contaminants with SDWSs do not affect the health at the economically and technologically feasible. Secondary MCLs MCL levels. are set to protect the odor, taste, and appearance of drinking Treatment Technique (TT): A required process intended to reduce water. the level of a contaminant in drinking water. Maximum Contaminant Level Goal (MCLG): The level of **Regulatory Action Level (AL)**: The concentration of a contaminant a contaminant in drinking water below which there is no which, if exceeded, triggers treatment or other requirements that a known or expected risk to health. MCLGs are set by the U.S. water system must follow. Environmental Protection Agency (U.S. EPA). Variances and Exemptions: Permissions from the State Water Public Health Goal (PHG): The level of a contaminant in Resources Control Board (State Board) to exceed an MCL or not drinking water below which there is no known or expected comply with a treatment technique under certain conditions. risk to health. PHGs are set by the California Environmental Level 1 Assessment: A Level 1 assessment is a study of the water Protection Agency. system to identify potential problems and determine (if possible) Maximum Residual Disinfectant Level (MRDL): The why total coliform bacteria have been found in our water system. highest level of a disinfectant allowed in drinking water. Level 2 Assessment: A Level 2 assessment is a very detailed study There is convincing evidence that addition of a disinfectant is of the water system to identify potential problems and determine (if necessary for control of microbial contaminants. possible) why an E. coli MCL violation has occurred and/or why Maximum Residual Disinfectant Level Goal (MRDLG): total coliform bacteria have been found in our water system on The level of a drinking water disinfectant below which there multiple occasions. is no known or expected risk to health. MRDLGs do not ND: not detectable at testing limit reflect the benefits of the use of disinfectants to control **ppm**: parts per million or milligrams per liter (mg/L) microbial contaminants. **ppb**: parts per billion or micrograms per liter  $(\mu g/L)$ Primary Drinking Water Standards (PDWS): MCLs and **ppt**: parts per trillion or nanograms per liter (ng/L) MRDLs for contaminants that affect health along with their **ppq**: parts per quadrillion or picogram per liter (pg/L) monitoring and reporting requirements, and water treatment **pCi/L**: picocuries per liter (a measure of radiation) requirements.

Water System Name:

Report Date: 5/30/2019

Western Hills Water District

**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.

#### 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 stormwater 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*, that can be naturally-occurring or be the result of oil and gas production and mining activities.

**In order to ensure that tap water is safe to drink**, the U.S. EPA and the 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.

Tables 1, 2, 3, 4, 5, and 6 list all of the drinking water contaminants that were detected during the most recent sampling for the constituent. The presence of these contaminants in the water does not necessarily indicate that the water poses a health risk. The State Board allows us to monitor for certain contaminants less than once per year because the concentrations of these contaminants do not change frequently. Some of the data, though representative of the water quality, are more than one year old. Any violation of an AL, MCL, MRDL, or TT is asterisked. Additional information regarding the violation is provided later in this report.

TABLE 1 – SAMPLING RESULTS SHOWING THE DETECTION OF COLIFORM BACTERIA								
Microbiological Contaminants (complete if bacteria detected)	Highest No Detection		f Months iolation	N	ICL		MCLG	Typical Source of Bacteria
Total Coliform Bacteria (state Total Coliform Rule)	(In a mon	th)	0	1 positive month	ily sample	e	0	Naturally present in the environment
Fecal Coliform or <i>E. coli</i> (state Total Coliform Rule)	(In the yea	ar)	0	A routine sample sample are total and one of these coliform or <i>E. co</i>	coliform is also fe	positive, cal		Human and animal fecal waste
<i>E. coli</i> (federal Revised Total Coliform Rule)	(In the yea	ar)	0		(a)		0	Human and animal fecal waste
(a) Routine and repeat samples are total coliform-positive and either is <i>E. coli</i> -positive or system fails to take repeat samples following <i>E. coli</i> -positive routine sample or system fails to analyze total coliform-positive repeat sample for <i>E. coli</i> . <b>TABLE 2 – SAMPLING RESULTS SHOWING THE DETECTION OF LEAD AND COPPER</b>								
Lead and Copper (complete if lead or copper detected in the last sample set)	Sample Date	No. of Samples Collected	90 <sup>th</sup> Percentile Level Detected	No. Sites Exceeding AL	AL	PHG	No. of Schools Requesting Lead Sampling	Typical Source of Contaminant
Lead (ppb)	3/28/2019	20	0.0	0	15	0.2	Not appliable	Internal corrosion of household water plumbing systems; discharges from industrial manufacturers; erosion of natural deposits
Copper (ppm)	3/28/2019	20	0.0	0	1.3	0.3	Not applicable	Internal corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives

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<b>Chemical or</b> <b>Constituent</b> (and reporting units)	Sample Date	Level Detected	Range of Detections	MCL	PHG (MCLG)	Typical Source of Contaminant
Sodium (ppm)	7/11/2018	32	-	None	None	Salt present in the water and is generally naturally occurring
Hardness (ppm)	7/11/2018	74	-	None	None	Sum of polyvalent cations present in the water, generally magnesium and calcium, and are usually naturally occurring
TABLE 4 – I	DETECTION	OF CONTA	MINANTS WIT	'H A <u>PRIMAR</u> '	<u>Y</u> DRINKING	WATER STANDARD
Chemical or Constituent (and reporting units)	Sample Date	Level Detected	Range of Detections	MCL [MRDL]	PHG (MCLG) [MRDLG]	Typical Source of Contaminant
Chloramines	12/31/2018	.48	.4853	MRDL= 4.0 (as Cl2)	MRDL= 4.0 (as Cl2)	Drinking Water disinfectant added for treatment
Control of DBP (TOC)	12/31/2018	1.24	1.23 - 1.29	TT	N/A	Various natural and Man made sources
TTHM's (ppb)	12/31/2018	38.68	11 - 100	80	N/A	By – Products of Drinking water disinfection
HAA5 (ppb)	12/31/2018	19.34	13 - 37	60	N/A	By – Products of Drinking water disinfection
TABLE 5 – DE	TECTION (	OF CONTAM	INANTS WITH	A SECONDA	<u>RY</u> DRINKIN	G WATER STANDARD
Chemical or Constituent (and reporting units)	Sample Date	Level Detected	Range of Detections	SMCL	PHG (MCLG)	Typical Source of Contaminant
Total Dissolved Solids (TDS) (ppm)	7/11/2018	200	-	1000	N/A	Runoff/leaching from natural deposits
Sulfate (ppm)	7/11/2018	44	-	500	N/A	Runoff/leaching from natural deposits; industrial wastes
Chloride (ppm)	7/11/2018	49	-	500	N/A	Runoff/leaching from natural deposits; seawater influence
Color (units)	7/11/2018	ND	ND – 2.5	15	N/A	Naturally occurring organic materials
Odor threshold (units)	7/11/2018 7/11/2018	ND ND	ND – 2.5 ND – 1.7	15 3	N/A N/A	
× ,						materials Naturally occurring organic
Odor threshold (units)	7/11/2018	ND	ND – 1.7	3	N/A	materials Naturally occurring organic materials
Odor threshold (units) Turbidity Specific Conductance	7/11/2018 7/11/2018 7/11/2018	ND .20 370	ND – 1.7 ND - 14	3 5 1600	N/A N/A N/A	materials Naturally occurring organic materials Soil Runoff Substances that form ions when in water; Seawater influence

## Additional General Information on Drinking Water

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 the water poses a health risk. More information about contaminants and potential health effects can be obtained by calling the U.S. EPA's Safe Drinking Water Hotline (1-800-426-4791).

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. U.S. EPA/Centers for Disease Control (CDC) guidelines on appropriate means to lessen the risk of infection by *Cryptosporidium* and other microbial contaminants are available from the Safe Drinking Water Hotline (1-800-426-4791).

Lead-Specific Language: 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. [Western Hills Water District] 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 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 (1-800-426-4791) or at http://www.epa.gov/lead.

## Summary Information for Violation of a MCL, MRDL, AL, TT, or Monitoring and Reporting Requirement

VIOLATION OF A MCL, MRDL, AL, TT, OR MONITORING AND REPORTING REQUIREMENT				
Violation	Explanation	Duration	Actions Taken to Correct the Violation	Health Effects Language
Lead/Copper	Paperwork not completed		Retook samples and completed paperwork as required	Lead: Infants and children who drink water containing lead in excess of the action level <u>May experience</u> delays in their physical or mental development Copper: Copper is an essential nutrient, but some people who drink water containing copper in excess of the action level over a relatively short period of time may experience gastrointestinal distress.

## For Systems Providing Surface Water as a Source of Drinking Water

#### TABLE 8 - SAMPLING RESULTS SHOWING TREATMENT OF SURFACE WATER SOURCES

Treatment Technique <sup>(a)</sup> (Type of approved filtration technology used)	ACTi floc Filters
Turbidity Performance Standards <sup>(b)</sup> (that must be met through the water treatment process)	Turbidity of the filtered water must: 1 – Be less than or equal to <u>0.3</u> NTU in 95% of measurements in a month. 2 – Not exceed <u>1.0</u> NTU for more than eight consecutive hours. 3 – Not exceed <u>1.0</u> NTU at any time.
Lowest monthly percentage of samples that met Turbidity Performance Standard No. 1.	100%
Highest single turbidity measurement during the year	1.0
Number of violations of any surface water treatment requirements	0

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

(b) Turbidity (measured in NTU) is a measurement of the cloudiness of water and is a good indicator of water quality and filtration performance. Turbidity results which meet performance standards are considered to be in compliance with filtration requirements.

## **Summary Information for Violation of a Surface Water TT**

### Summary Information for Federal Revised Total Coliform Rule Level 1 and Level 2 Assessment Requirements

#### Level 1 or Level 2 Assessment Requirement not Due to an *E. coli* MCL Violation

Coliforms are bacteria that are naturally present in the environment and are used as an indicator that other, potentially harmful, waterborne pathogens may be present or that a potential pathway exists through which contamination may enter the drinking water distribution system. We found coliforms indicating the need to look for potential problems in water treatment or distribution. When this occurs, we are required to conduct assessment(s) to identify problems and to correct any problems that were found during these assessments.

During the past year we were required to conduct  $[\underline{0}]$  Level 1 assessment(s).  $[\underline{0}]$  Level 1 assessment(s) were completed. In addition, we were required to take  $[\underline{0}]$  corrective actions and we completed  $[\underline{0}]$  of these actions.

During the past year  $[\underline{0}]$  Level 2 assessments were required to be completed for our water system.  $[\underline{0}]$  Level 2 assessments were completed. In addition, we were required to take  $[\underline{0}]$  corrective actions and we completed  $[\underline{0}]$  of these actions.

#### Level 2 Assessment Requirement Due to an E. coli MCL Violation

*E. coli* are bacteria whose presence indicates that the water may be contaminated with human or animal wastes. Human pathogens in these wastes can cause short-term effects, such as diarrhea, cramps, nausea, headaches, or other symptoms.

They may pose a greater health risk for infants, young children, the elderly, and people with severely-compromised immune systems. We found *E. coli* bacteria, indicating the need to look for potential problems in water treatment or distribution. When this occurs, we are required to conduct assessment(s) identify problems and to correct any problems that were found during these assessments.

We were required to complete a Level 2 assessment because we found *E. coli* in our water system. In addition, we were required to take  $[\underline{0}]$  corrective actions and we completed  $[\underline{0}]$  of these actions.