2017 Consumer Confidence Report

Water System Name: Malaga (County Water District	Report Date:	June 29, 2018
We test the drinking water quality the results of our monitoring for the			
Este informe contiene informacio entienda bien.	n muy importante sobre su agu	ıa potable. Tradú	zcalo ó hable con alguien que lo
Type of water source(s) in use:	GroundWater		
Name & general location of source	(s): Well #6, Well #7, Well #8- District.	- Specific Locations	can be obtained from the
Drinking Water Source Assessmen			··
Conformance with State guidelines sources are vulnerable to contamin A source water assessment for Wel	ation based on the assessment; add	ditional monitoring	has been initiated accordingly.
following activities not associated			
Yards, septic systems-low density (assessment may be viewed at: Mala	<1/acre), Sewer Collection System		
Time and place of regularly schedu	led board meetings for public par	ticipation: Second	l and Fourth Tuesday at 7pm

TERMS USED IN THIS REPORT

Maximum Contaminant Level (MCL): The highest level of a contaminant that is allowed in drinking water. Primary MCLs are set as close to the PHGs (or MCLGs) as is economically and technologically feasible. Secondary MCLs are set to protect the odor, taste, and appearance of drinking water.

Of each month at 3580 S. Frank Street, Fresno, Ca 93725

For more information, contact: James D. Anderson, General Manager

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 (U.S. EPA).

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.

Maximum Residual Disinfectant Level (MRDL): 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.

Maximum Residual Disinfectant Level Goal (MRDLG): The level of a drinking water disinfectant below which there is no known or expected risk to

Secondary Drinking Water Standards (SDWS): MCLs for contaminants that affect taste, odor, or appearance of the drinking water. Contaminants with SDWSs do not affect the health at the MCL levels.

Phone: (559)485-7353

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

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

Variances and Exemptions: State Board permission to exceed an MCL or not comply with a treatment technique under certain conditions.

Level 1 Assessment: A Level 1 assessment is a study of the water system to identify potential problems and determine (if possible) why total coliform bacteria have been found in our water system.

Level 2 Assessment: A Level 2 assessment is a very detailed study of the water system to identify potential problems and determine (if possible) why an *E. coli* MCL violation has occurred and/or why total coliform bacteria have been found in our water system on multiple occasions.

ND: not detectable at testing limit

ppm: parts per million or milligrams per liter (mg/L)

health. MRDLGs do not reflect the benefits of the use of disinfectants to control microbial contaminants.

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

ppb: parts per billion or micrograms per liter (μg/L)
ppt: parts per trillion or nanograms per liter (ng/L)
ppq: parts per quadrillion or picogram per liter (pg/L)
pCi/L: picocuries per liter (a measure of radiation)

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 Water Resources Control Board (State Board) prescribe regulations that limit the amount of certain contaminants in water provided by public water systems. State Board regulations 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. of Detections	No. of months in violation	MCL	MCLG	Typical Source of Bacteria	
Total Coliform Bacteria (state Total Coliform Rule)	(In a mo.) 2	1	1 positive monthly sample	0	Naturally present in the environment	
Fecal Coliform or <i>E. coli</i> (state Total Coliform Rule)	(In the year)	0	A routine sample and a repeat sample are total coliform positive, and one of these is also fecal coliform or <i>E. coli</i> positive	0	Human and animal fecal waste	
E. coli (federal Revised Total Coliform Rule)	0	0	(a)	0	Human and animal fecal waste	

(a) Routine and repeat samples are total coliform-positive and either is *E. coli*-positive or system fails to take repeat samples following *E. coli*-positive routine sample or system fails to analyze total coliform-positive repeat sample for *E. coli*.

	TABLE 2	– SAIVUPLU	IG RESUL	115 SHU	WINGTHE	DETECT	ON OF LEA	D AND COPPER
	Lead and Copper (complete if lead or copper detected in the last sample set)	Sample Date	No. of samples collected	90 th percenti le level detected	No. sites exceeding AL	AL	PHG	Typical Source of Contaminant
Ì	Lead (ppb)	9/13/2016	10	ND	NONE	15	0.2	Internal corrosion of household water plumbing systems; discharges from

Copper (ppm)	9/13/16	10	.005	NONE	1.3	0.3	industrial manufacturers; erosion of natural deposits Internal corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives
And the second s	TABLE 3	- SAMPL	ING RI	ESULTS FOR	SODIUM .	AND HARD	NESS
Chemical or Constituent (and reporting units)	Sample Date	Level Detecte		Range of Detections	MCL	PHG (MCLG)	Typical Source of Contaminant
Sodium (ppm)	5/10/2016	36		32-44	none	none	Salt present in the water and is generally naturally occurring
Hardness (ppm)	5/10/2016	79		40-120	none	попе	Sum of polyvalent cations present in the water, generally magnesium and calcium, and are usually naturally occurring
TABLE 4 – DET	TECTION O	F CONTA	MINAI	NTS WITH A	PRIMARY	DRINKING	WATER STANDARD
Chemical or Constituent (and reporting units)	Sample Date	Level Detecte	d	Range of Detections	MCL [MRDL]	PHG (MCLG) [MRDLG]	Typical Source of Contaminant
Aluminum	11/2015	1.8		1.1-4.3	1000	600	Erosion of natural deposits; residue from some surface water treatment processes
Antimony	11/2015	.1		0.1-0.1	6	20	Discharge from petroleum refineries; fire retardants; ceramics; electronics; solder
Arsenic	11/2015	2.7		2-3.9	10	0.004	Erosion of natural deposits; runoff from orchards; glass and electronics production wastes
Barium	11/2015	31		.038-59	1000	2000	Discharges of oil drilling wastes and from metal refineries; erosion of natural deposits
Chromium (total)	11/2015	2.4		5,2-5.2	50	100	Discharge from steel and pulp mills and chrome planting; crosion of natural deposits
Flouride (F) Temp Depend (mg/l)	11/2015	.10		0.14-0.17	2	1	Erosion of natural deposits; water additive that promotes strong teeth; discharge from fertilizer and aluminum factories
Hexavalent Chromium	9/2014	4.03		3.2-3.7	10	0.02	Discharge from electroplating factories, leather tanneries, wood preservation, chemical synthesis, refractory production, and textile manufacturing facilities; erosion of natural deposits
Nitrate	2017	2.93		2.1-4.5	10	10	Runoff and leaching from fertilizer use; leaching from septic tanks and sewage; crosion of natural deposits
Dibromochloropropane (DBCP)	2/2017	.036		0-,092	0.2	0.0017	DBCP was used as a soil fumigant in the control of nematodes.
TABLE 5 – DETE	CTION OF	CONTAM	INANT	S WITH A <u>SI</u>	CONDAR	<u>Y</u> DRINKIN	G WATER STANDARD
Chemical or Constituent (and reporting units)	Sample Date	Level Detected	l	Range of Detections	MCL	PHG (MCLG)	Typical Source of Contaminant
Chloride	10/2016	10		7-14	500	500	Runoff / leaching from natural deposits; seawater influence
Copper	8/2016	0.70		0.91-1.10	1000	300	Internal corrosion of household plumbing systems; erosion of natural deposits; ;

						leaching from wood
						preservatives
Iron	10/2016	43	32-100	0	300	Leaching from natural deposits; industrial wastes
Odor	11/2015	1	0-2	3	N/A	Naturally occurring Hydrogen sulfide produces an offensive rotten egg or "sulfur water" odor and taste in the water.
Specific Conductane	2017	333	290-450	1600	1600	Substances that from ions when in water; seawater influence
Sulfate	10/2016	7.8	6-10	500	500	Runoff / leaching from natural deposits; industrial wastes
TOTAL DISSOLVED SOLIDS	8/2016	193	120-250	500	N/A	Runoff / leaching from natural deposits
Turbidity	11/2015	0.3	0-2	5	N/A	Turbidity in water can be naturally occurring. It is caused by suspended matter, such as silt, clay, fine organic and inorganic matter, and by microorganisms.
Zinc	8/2016	1.70	0-14	5000	N/A	Zinc can be introduced into water naturally by erosion of minerals from rocks and soil.
Boron	10/2016	15	0-26	1000	N/A	The babies of some pregnant women who drink water containing boron in excess of the notification level may have an increased risk of developmental effects, based on studies in laboratory animals.
A SOME DESCRIPTION OF THE PROPERTY OF THE PROP	TABLE 6	- DETECTIO	N OF UNREGUI	ATED CO	NTAMINA	NTS
Chemical or Constituent (and reporting units)	Sample Date	Level Detected	Range of Detections	Notification Level		Health Effects Language

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 for Community Water Systems: 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. Malaga County 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. [Optional: 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 drin	king water, testing methods	, and steps you can take to minimize
exposure is available from the	Safe Drinking Water Hotling	e (1-800-426-4701) or at htt	p://www.epa.gov/lead.

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

Violation	Explanation	Duration	Actions Taken to Correct the Violation	Health Effects Language
1	2 positive test for total coliform	1 month August 2017	Chlorination of the distribution system for 10 days and Repeat samples were taken in accordance with the Groundwater Rule and Repeat Sampling.	

coliforms are a sign that there could be a problem with the treatment or distribution system (pipes). Whenever we detect coliform bacteria in any sample, we do follow-up testing to see if other bacteria of greater concern, such as fecal coliform or *E. coli*, are present. We did not find any of these bacteria in our subsequent testing.

For Water Systems Providing Groundwater as a Source of Drinking Water

TABLE 7 – SAMPLING RESULTS SHOWING FECAL INDICATOR-POSITIVE GROUNDWATER SOURCE SAMPLES								
Microbiological Contaminants (complete if fecal-indicator detected) Total No. of Detections Sample MCL (MCLG) (MCLG) (MCLG) [MRDLG]					Typical Source of Contaminant			
E. coli	0		0	(0)	Human and animal fecal waste			
Enterococci	0		ТТ	n/a	Human and animal fecal waste			
Coliphage	0		TT	n/a	Human and animal fecal waste			

Summary Information for Fecal Indicator-Positive Groundwater Source Samples, Uncorrected Significant Deficiencies, or Groundwater TT

SPECIAL NOTICE OF FECAL INDICATOR-POSITIVE GROUNDWATER SOURCE SAMPLE	
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	NETS CONTRACTOR
SPECIAL NOTICE FOR UNCORRECTED SIGNIFICANT DEFICIENCIES	

TABLE 8 - SAMPLING RESULTS SHOWING TREATMENT OF SURFACE WATER SOURCES				
Treatment Technique ^(a) (Type of approved filtration technology used)				
Turbidity Performance Standards ^(b) (that must be met through the water treatment process)	Turbidity of the filtered water must: 1 — Be less than or equal to NTU in 95% of measurements in a month. 2 — Not exceed NTU for more than eight consecutive hours. 3 — Not exceed NTU at any time.			
Lowest monthly percentage of samples that met Turbidity Performance Standard No. 1.				
Highest single turbidity measurement during the year				
Number of violations of any surface water treatment requirements				

- (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

VIOLATION OF A SURFACE WATER TT						
TT Violation	Explanation	Duration	Actions Taken to Correct the Violation	Health Effects Language		

Summary Information for Operating Under a Variance or Exemption					

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 [INSERT NUMBER OF LEVEL 1 ASSESSMENTS] Level 1 assessment(s). [INSERT NUMBER OF LEVEL 1 ASSESSMENTS] Level 1 assessment(s) were completed. In addition, we were required to take [INSERT NUMBER OF CORRECTIVE ACTIONS] corrective actions and we completed [INSERT NUMBER OF CORRECTIVE ACTIONS] of these actions.

During the past year [1] Level 2 assessments were required to be completed for our water system. [1] Level 2 assessments were completed. In addition, we were required to take [0] corrective actions and we completed [0] of these actions.

We chlorinated our water system for a week $(8/30/2017-9/6/2017)$ and re-sampled the designated sample
sites and our ground water sources. The issue has been resolved as of 9/7/2017. All samples came back
negative for total coliform.

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 very	vere required to take
[INSERT NUMBER OF CORRECTIVE ACTIONS] corrective actions and we completed [INSERT NUMBER	OF CORRECTIVE
ACTIONS] of these actions.	
	