# **Marina Coast** Water District



2015 Consumer Confidence Report

arina Coast Water District is proud to present the 2015 Consumer Confidence Report. This annual water qual-IV ity report includes information about where your water comes from, what it contains and how it compares to drinking water standards. As in the past, the District gives you the assurance that your drinking water meets stringent California and Federal drinking water standards.

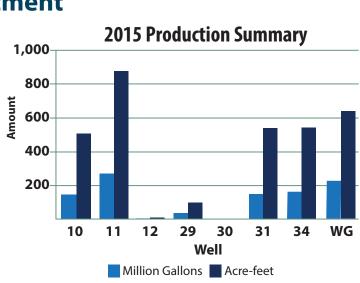
If you have any questions regarding the information in this report or about your water, please contact our Laboratory Supervisor, Thomas Barkhurst at 384-6131. You can also visit our website at www.mcwd.org

## Water Supply and Treatment

The District provides groundwater produced from eight wells delivered through a distribution system network of seven storage tanks and nearly 250 miles of pipeline.

Three deep supply wells (10, 11, and 12) located in Central Marina draw groundwater from 900-foot aquifer of the Salinas Valley Groundwater Basin. The groundwater is treated at each well site for disinfection and to remove naturally-occurring hydrogen sulfide that can cause odor problems.

Five supply wells (29, 30, 31, 34 and Watkins Gate) located in the Ord Community draw groundwater from the Salinas Valley Groundwater Basin 900-foot, 400-foot and lower 180-foot aquifers. Groundwater from these supply wells is disinfected in the Ord



Community chlorination treatment plant. In 2015, Well 30 did not operate.

In 2005, the Central Marina and Ord Community water systems were connected to allow water to flow between the systems to meet peak demands and improve overall service.

## Source Water Assessment

c everal source water assessments have been completed. The source water assessment considers several factors: The presence of a possible contaminating activity (PCA) such as current or historic human activities that are potential origins of contamination for a drink ing water source, its proximity to the source, the risk associated with the PCA, and the construction and setting of the source. These factors are then ranked, the source is considered most vulnerable to the PCAs at the top of the ranking.

In July 2001, the California Department of Public Health (CDPH) completed an assessment of each groundwater supply well in Central Marina, which concluded they are most vulnerable to historic waste dumps, landfill activities and military installations.

For the Ord Community: In February 2002, an assessment was completed of each groundwater sup-

ply well concluded they are most vulnerable to known volatile organic contaminant plumes from the closed landfill on the former Fort Ord, as well as to saltwater intrusion, sewer collection system, above ground storage tanks, irrigated crops, transportation corridors, farm machinery repairs and septic systems. November 2012, a completed source assessment for Watkins Gate well determined the well to be most vulnerable to Military Installations. February 2014, a completed assessment for Well 34 determined the well most vulnerable to Military installations (former Fort Ord), agricultural drainage, salt water intrusion, and sewer collection sys-

Full details of the assessment may be viewed at the following locations: MCWD, 11 Reservation Road, Marina, CA, or at SWRCB DDW, 1 Lower Ragsdale Drive, Building 1, Suite 120, Monterey, CA.



11 Reservation Road, Marina, CA 93933-2099 Phone: (831) 384-6131 • Fax: (831) 883-5995 www.mcwd.org • mcwd@mcwd.org • ccr@mcwd.org

Mission Statement: We provide our customers with high quality water, wastewater collection and conservation services at a reasonable cost, through planning, management and the development of water resources in an environmentally sensitive manner.

Board meetings are open to the public and held the first and third Mondays of every month at the City of Marina Council Chambers, 211 Hillcrest Avenue at 6:30 рм. Agendas are posted in the following places at least 72 hours before each meeting: Marina Coast Water District, Marina and Seaside City Halls, Marina and Seaside Libraries and the Marina Post Office.

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



## Water Quality

The District diligently monitors water quality and once again, is proud to report that your tap water meets California and Federal drinking water standards.

### Federal Groundwater Rule

The California Department of Public Health (CDPH) implemented the Federal Groundwater Rule (GWR); compliance started on December 1, 2009. The purpose of the GWR is to reduce the risk of illness caused by microbial contamination in public groundwater systems. The District is pleased to report that coliforms were not detected in all but two of the required 526 distribution system samples collected in Central Marina and Ord Community.

### Trichloroethylene (TCE)

TCE was a common solvent used by the US Army on the former Fort Ord. In 2015, TCE (below the MCL or standard) was detected in District's supply Well No. 29, and 31, and also in the Intermediate and Sand Tanks (Well 30 did not operate in 2015). With the interconnection of the two water systems, the Intermediate and Sand Tanks may supply drinking water to Central Marina and Ord Community distribution systems.

The Army operates a network of shallow groundwater monitoring wells to track progress in its ongoing cleanup of the TCE contamination plume from the nowclosed landfill and fire drill area. The Army groundwater monitoring wells do not supply drinking water to District customers. TCE was detected in a majority of the Army's groundwater monitoring wells. In addition to quarterly monitoring of the Army's groundwater monitoring wells, the District's supply Wells No. 29, 30 and 31 are also monitored quarterly (Well 30 excepted in 2015 as it did not operate).

#### Arsenic

While your drinking water meets the federal and state standard for arsenic, it does 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.

#### Lead

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. Marina Coast 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 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 www.epa.gov/lead.

### A Notice on Radon

Radon is a radioactive gas that you cannot see, taste, or smell. It is found throughout the U.S. Radon can move up through the ground and into a home through cracks and holes in the foundation. Radon can build up to high levels in all types of homes. Radon can also get into indoor air when released from tap water from showering, washing dishes, and other household activities. Compared to radon entering the home through soil, radon entering the home through tap water will in most cases be a small contributor to radon in indoor air. Radon is a known human carcinogen. Breathing air containing radon can lead to lung cancer. Drinking water containing radon may also cause increased risk of stomach cancer. If you are concerned about radon in your home, test the air in your home. Testing is inexpensive and easy. You should pursue radon removal for your home if the level of radon in your air is 4 picocuries per liter of air (pCi/L) or higher. There are simple ways to fix a radon problem that are not too costly. For additional information, call your State radon program (1-800-745-7236), the EPA Safe Drinking Water Act Hotline (1-800-426-4791), or the National Safety Council Radon Hotline at (1-800-SOS-RADON).

#### What Are the Sources of Contaminants?

The sources of drinking water (both tap 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 human activity. Contaminants hat 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 by-products 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 naturallyoccurring 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. Environmental Protection Agency (USEPA) and the State Water Resources Control Board Division of Drinking Water (DDW) prescribe regulations that limit the amount of certain contaminants in water provided by public water systems. DDW regulations also establish limits for contaminants in bottled water that 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 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)



The District's Customer Service staff is available to assist you Monday through Friday, 8 AM to 5:30 PM.

#### **Educational Information and Special Health** Information

rinking water, including bottled water, may reason-U ably be expected to contain at least small amounts of some contaminants. The presence of contaminants does not necessarily indicate that water poses a heath 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.

#### **Other Water Information Sources**

CA State Water Resources Control Board Division of **Drinking Water:** 

waterboards.ca.gov/drinking\_water/programs

US Environmental Protection Agency: water.epa.gov/drink

Centers for Disease Control: cdc.gov

Fort Ord Cleanup Project: fortordcleanup.com



Laboratory staff continually monitor drinking water. Water quality data is posted monthly on the MCWD website (www.mcwd.org).

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How to Read Wa	iter Q	uality T	ables						<b>Groundwater S</b>	vlag	Wells	Wat	er Oua	lity			
he following tables list the res				. 0				hat contaminant (this may be lower than what is allowed).	Detected Contaminants	Units	MCL	PHG	Year Tested <sup>(b)</sup>	Annual	Range	Violatio	n Major Sources in Drinking Water
in the District's distributio						better understa		<i>Year Tested</i> is usually in 2015 or for some contaminants the				(MCLG)		Average	Low - High		
supply wells. While most monito	0	1 (		e the <i>Definition</i>				nost recent sampling year. Annual Average is the average	<b>PRIMARY DRINKING WATER</b>	<b>STANDAR</b>	DS						
December 2015, regulations allow the District to monitor certain chemicals less than once per year because the levels <i>Contaminant(s)</i> and read across the row. <i>Units</i> express the highest amount measured. A <i>No Violation</i> indicates that								Arsenic	ppb	10	0.004	2015	2.8	ND - 7.6	No	Erosion of natural deposits.	
	<b>-</b> '							0	Fluoride (Natural)	ppm	2.0	1	2015	0.19	ND - 0.26	No	Erosion of natural deposits.
do not change frequently. The test results are divided into amount measured. <i>MCL</i> shows the highest amount of regulation requirements were met. <i>Major Sources in Drinking</i> the following sections: <i>Primary Drinking Water Standards</i> , contaminant allowed. <i>PHG/MCLG</i> is the goal amount for <i>Water</i> tell where the contaminant usually originates.								Hexavalent Chromium	ppb	10	0.02	2014 <sup>(c)</sup>	2.7	ND - 6.2	n/a	Erosion of natural deposits.	
the following sections: <i>Frimary Driving valuer Sumaaras</i> , contaminant anowed. <i>FriG/MOLG</i> is the goal amount for <i>water</i> tell where the contaminant usually originates.								Gross Alpha particle activity	pCi/L	15	(Zero)	2014 / 2013 <sup>(e)</sup>	ND	ND - 9.4	No	Erosion of natural deposits.	
				_					Nitrate (as N)	ppm	10	10	2015	1	ND - 3.2	No	Erosion of natural deposits.
Distribution System Water Quality							Selenium	ppb	50	30	2015	ND	ND - 6.0	No	Erosion of natural deposits.		
PRIMARY DRINKING WATER STANDARDS — Microbiology							Trichloroethylene [TCE]	ppb	5	1.7	2015	ND	ND - 1.8	No	Discharge from metal degreasing sites.		
	AIER JI			Ugy					Uranium	pCi/L	20	0.43	2013 <sup>(d)</sup>	2.1	ND - 4.8	No	Erosion of natural deposits.
Detected Contaminant	Units	MCL	(MCLG)	Year Tested		bles Collected h Positive	Violation	Major Sources in Drinking Water	<b>SECONDARY DRINKING WAT</b>	<b>FER STAND</b>	DARDS						
Detected containinant	Units	MICL	(MCLG)	Tear Testeu		amples	VIOlation		Chloride	ppm	500	n/a	2015	99	66 - 190	No	Leaching from natural deposits; seawater influence.
					1- Positive (	1.9%) in March			Foaming Agents [MBAS]	ppb	500	n/a	2015	ND	ND - 71	No	Municipal and industrial waste discharges.
Total Coliform Bacteria	Positive		(0)	2015		tive (2.3%) in	Nie	Net wells are east in the environment	Odor Threshold	TON	3	n/a	2015	ND	ND - 3*	No	Naturally-occurring organic materials.
	Samples	•	(0)	2015		tember	No	Naturally present in the environment.	pH Units	Units	6.5 - 8.5	n/a	2015	8.1	7.8 - 8.6	No	Naturally-occurring minerals.
<b>PRIMARY DRINKING WATER STANDARDS</b> — Disinfection Byproducts & Disinfectant Residual							Specific Conductance	μS/cm	1600	n/a	2015	627	460 - 1000	No	Substances that form ions when in water; seawater influence.		
			PHG (MCLG)		Annual	Range			Sulfate	ppm	500	n/a	2015	39	23 - 54	No	Leaching from natural deposits.
Detected Contaminants	Units	MCL [MRDL]	[MRDLG]	Year Tested	Average	Low - High	Violation	Major Sources in Drinking Water	Total Dissolved Solids	ppm	1000	n/a	2015	386	280 - 600	No	Leaching from natural deposits.
Total Trihalomethanes (TTHM)	ppb	80	n/a	2015	6.0	1.3 - 9.4	No	Byproduct of drinking water disinfection.	Turbidity	NTU	5	n/a	2015	0.3	0.071 - 2.2	No	Soil run-off.
Chlorine Residual [as Cl <sub>2</sub> ]	ppm	[4.0]	[4]	2015	1.09	0.08 - 2.20	No	Drinking water disinfectant added for treatment.	<b>OTHER CONSTITUENTS</b> — N	o Drinking I	Nater Stand	dards					
<b>PRIMARY DRINKING W</b>	ATER ST/	<b>NDARDS</b> -	— Lead & Co	pper Indoor	Tap Sample	25			Alkalinity	ppm	n/a	n/a	2015	109	65 - 170	n/a	Naturally-occurring minerals.
					* 90th	No. of Sites			Bicarbonate Alkalinity	ppm	n/a	n/a	2015	133	78 - 210	n/a	Naturally-occurring minerals.
					Percentile	Above Action			Carbonate Alkalinity	ppm	n/a	n/a	2015	ND	ND - 2.6	n/a	Naturally-occurring minerals.
Detected Contaminant	Units	Action Level	PHG	Year Tested	Level	Level	Violation	Major Sources in Drinking Water	Calcium	ppm	n/a	n/a	2015	35	3.0 - 57	n/a	Naturally-occurring mineral.
Copper	ppm	1.3	0.3	2013	0.24	0 of 32	No	Internal corrosion of household plumbing systems.	Magnesium	ppm	n/a	n/a	2015	11	0.47 - 24	n/a	Naturally-occurring mineral.
* 90th Percentile: For compliance, t	he sample res	ult at the 90th pe	ercentile level mu	st be less than the	e Action Level fo	r copper at 1.3 ppr	n. Action Lev	el for lead is set at 15 ppb. Lead was not detected in Central Marina	Potassium	ppm	n/a	n/a	2015	3.0	2.3 - 4.0	n/a	Naturally-occurring mineral.
and Ord Community indoor tap water samples.						Sodium	ppm	n/a	n/a	2015	80	44 - 120	n/a	Naturally-occurring mineral.			
Not Detected Chemicals: The list of	chemicals tes	ted but not detec	ted are reported	at: www.mcwd.or	rg/2015ccr-ND.h	tml.			Hardness <sup>(a)</sup>	ppm	n/a	n/a	2015	129	9.4 - 240	n/a	Naturally-occurring minerals.
Definitions of Terms Us	ed								Radon 222	pCi/L	n/a	n/a	2000 <sup>(c)</sup>	532	208 - 1408	n/a	Naturally-occurring gas.
Maximum Contaminant Leve		highest level of	fa Maximun	n Residual Disir	nfectant Level (	MRDL): The high	nest lev- r	/a: Not Applicable	UNREGULATED CONTAMINA	ANTS — No	Drinking V	Vater Sta	andards				
contaminant that is allowed in drinking water. Primary MCLs el of a disinfectant allowed in drinking water. There is convincing								Boron	ppb	1000 (AL)	n/a	2015	ND	ND - 110	n/a	Erosion of natural deposits.	
are set as close to the PHGs (or MCLGs) as is economically and evidence that addition of a disinfectant is necessary for control of							Vanadium	ppb	50 (AL)	n/a	2015	5	ND - 14	n/a	Erosion of natural deposits.		
technologically feasible. Secondary MCLs are set to protect the odor, taste, and appearance of drinking water. Notification Level: DDW established health-based advisory levels for chemicals in drinking water that lack maximum con-						version level: DDW established health-based advisory evels for chemicals in drinking water that lack maximum con-	Chlorate	ppb	800 (AL)	n/a	2014 <sup>(f)</sup>	461	100 - 1400**	n/a	Disinfectant added for treatment, an agricultural defoliant or desiccant.		
odor, taste, and appearance of dr	mking water.		Maximun	n Residual Disin	fectant Level (	Goal (MRDLG): 7	he level	vers for chemicals in uninking water that lack maximum con-									

Detected Contaminant	Units	Action Level	PHG	Year Tested	* 90th Percentile Level	No. of Sites Above Action Level	Violation	Major Sources in Drinking Water
Copper	ppm	1.3	0.3	2013	0.24	0 of 32	No	Internal corrosion of household plumb

or expected risk to health. MCLGs are set by the U.S. Environ- use of disinfectants to control microbial contaminants. mental Protection Agency.

ing water below which there is no known or expected risk to that a water supplier must follow. health. PHGs are set by the California Environmental Protection Agency.

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

Maximum Residual Disinfectant Level Goal (MRDLG): The level Maximum Contaminant Level Goal (MCLG): The level of a of a drinking water disinfectant below which there is no known or contaminant in drinking water below which there is no known expected risk to health. MRDLGs do not reflect the benefits of the NTU: Nephelometric Turbidity Units

Regulatory Action Level (AL): The concentration of a contami-Public Health Goal (PHG): The level of a contaminant in drink- nant which, if exceeded, triggers treatment or other requirements

> UCMR: Unregulated Chemicals Monitoring Rule that help EPA and CDPH to determine where certain contaminants occur and **TON**: Threshold Odor Number need to be regulated.

MRL: Method Reporting Limit or the lower-limit of quantitation

taminant levels

**pCi/L:** picocuries per liter

**ppm:** parts per million or milligrams per liter

**ppb:** parts per billion or micrograms per liter

**ppt:** parts per trillion or nanograms per liter

Footnotes:

(a) Water Hardness Unit Conversion: 136 ppm = 7.9 grains/gallon.

(b) Well 30 did not operate in 2013 & 2014. December 10, 2012—California Department of Public Health (CDPH) granted an amendment to Marina Coast Water District's Domestic Water Supply Permit allow two new groundwater sources: Wells 34 and Watkins Gate. Prior to the amendment, CDPH granted interim approval to operate Well 34 10/31/2012 and Watkins Gate Well 11/28/2012. c) Testing in Years (most recent sampling) 2000 & 2004 did not include Well 34 and Watkins Gate Well, see footnote ( b ) above.

(d) Wells 12 & 29 waivered—due 2016 depending on Gross Alpha results then.

(e) Year Tested (most recent sampling date tested for compliance) 2007 (Wells 29 and 12: 3/27/2007, Well 30 (did not operate in 2013 2014 & 2015) 1/10/2007), Well 11 (one test 2/25/2014)

(f) UCMR3 Wells post-treatment (Entry Point to the Distribution System) chlorate sampling dates 4/1/2014, 4/15/2014 and 10/1/2014.

Well 11 odor sampled 1/13/2016 exceeded Secondary MCL of 3 TON with result 40 TON. Well 11 odor resampled three times 3/23/2016 results were 1, 2 and 1 TON, respectively.

\* Only California (Notification Level) AL exceedance was Well 12 treatment plant effluent sampled 10/1/2014.

Not Detected Chemicals: The list of chemicals tested but not detected are reported at: www.mcwd. org/2015ccr-ND.html.