

City of Norco 2015 Consumer Confidence Report For Calendar Year 2014

Message from the Director

We are pleased to present our annual Consumer Confidence Report for calendar year 2014. Included in this report are details about your drinking water quality, where it comes from and how it compares to State standards. The City of Norco water customers enjoy high-quality water that meets or exceeds all state and federal standards. This past year, we provided 2.7 billion gallons of drinking water to Norco residents and businesses. We are committed to providing our residents high quality drinking water. This brochure provides a snapshot of last year's water quality.

In order to ensure that we continue to provide high-quality drinking water, this past year we purchased 1.47 billion gallons of treated RO (reverse osmosis) water from the Arlington Desalter Facility and 340.1 million gallons of RO water from the Chino Desalter Authority. This accounts for approximately 69 percent of the City's annual water demands.

The City of Norco Department of Public Works is responsible for the operation, maintenance, production and distribution of water to residents located within our City limits. The water delivered to our distribution system is monitored constantly to ensure that a sufficient volume of safe drinking water is always available to meet the needs of the community. The City chlorinates (disinfects) all well water and operates a treatment facility for the removal of iron, manganese and arsenic. The City of Norco produces 31 percent of its water from groundwater wells located in the Temescal Groundwater Basin and the Chino Basin north of the Santa Ana River. Treated water is also purchased from the Arlington Desalter, Chino Desalter Authority and Western Municipal Water District.

The personnel that operate, monitor, and maintain the City's water system from the source to your water meter are all certified by the State of California in the safe and proper methods and procedures required to safeguard the system from contamination. All water analysis work is performed by an independent state-certified laboratory, and test results are sent to the City as well as the State Water Resources Control Board (State Board), Division of Drinking Water.

Bottom Line – Your Water Meets or Exceeds All EPA and State Drinking Water Standards

Last year, we conducted more than 1,750 water tests for over 80 contaminants. The detected contaminants are summarized in the enclosed table. The State allows us to monitor for some contaminants less than once per year because the concentrations of these contaminants do not change frequently, therefore, some of our data, though representative, is more than one year old. An assessment of the City of Norco drinking water sources was completed in December 2001 to evaluate which local activities may cause potential contamination to our water supply. The report identified the following potential sources; animal feeding operations, agricultural drainage, grazing, high-density septic systems, and sewer collection systems. A copy of the complete assessment summary is available at the Norco City Hall.

The City of Norco Has Detected Arsenic in our Drinking Water

While your drinking water meets the federal and state standard of 0.010 mg/L for arsenic, the City's groundwater wells contain arsenic above the MCL. The arsenic standard balances the current understanding of arsenic's possible health effects against the costs of removing arsenic from drinking water. Some people who drink water containing arsenic in excess of the MCL over many years may experience skin damage or circulatory system problems, and may have an increased risk of getting cancer. The City operates a treatment facility designed to remove arsenic from local groundwater as part of the treatment process. Our goal is to provide water to Norco residents with no detection of arsenic.

2014 CITY OF NORCO WATER QUALITY RESULT SUMMARY

PRIMARY STANDARDS: Mandatory Health Related Standards

		MCL	PHG	NORCO WATER SOURCES (% COMPOSITION)							
				***WELL	ARLINGTON	CHINO	W.M.W.D.	NORCO			
	MEASURE	[MRDL]	[MRDLG]	WATER	DESALTER	DESALTER	MILLS	SYSTE	MWIDE	SOURCES OF	
	WIEASURE	(AL)	(MCLG)	30.5%	54.5%	12.5%	2.5%	10	0%	CONTAMINATION	
				RANGE	RANGE	RANGE	RANGE	RANGE	AVERAGE		
MICROBIOLOGICAL	Highest # of	No more than									
	positives in one	one (1) per							Highest =		
Total Coliform	Month	Month	(0)	NA	NA	0	0	0	1	Naturally occurring	
REGULATED ORGANIC											
Total Trihalomethanes (TTHMs)	Ug/l	80	NS	NA	<0.5 - 4.7	ND	ND - 38	1.3 - 71.5	50.9	Byproduct of disinfection treatment	
Haloacetic Acids (HAA5)	Ug/l	60	NS	NA	<2 - 11	11.0 - 17.0	ND - 12	ND - 15.3	9.2	Byproduct of disinfection treatment	
Chlorine (CL2)	Mg/I	[4.0 as Cl2]	[4 as Cl2]	NA	0.7 - 1.8	0.8 - 1.8	0.4 - 3.5	0.4 - 1.5	1.0	Drinking water disinfectant	
REGULATED INORGANIC											
										Runoff and leaching from fertilizer use;	
										leaching from septic tanks and sewage;	
Nitrate (as NO3)*	Mg/I	45	45	ND - 13.0	14 - 23	14 - 26	ND - 34.0	ND - 34	14.4	erosion of natural deposits	
Fluoride	Mg/I	2.0	1	0.84 - 4**	<0.1 - 0.1	ND - 0.2	ND - 0.8	ND - 3.4**	0.7	Naturally occurring	
Benzene	Ug/l	1	0.15	ND - 0.89	ND	ND	ND	ND - 0.89	ND	Plastics, fuel tanks, landfills	
Arsenic	Ug/l	10	0.004	ND - 16.0	ND	ND	ND - 2.0	ND - 6.4	1.8	Erosion of natural deposits	
RADIOLOGICAL											
Gross Alpha Particle Activity	pCi/l	15	(0)	ND - 9.5	ND - 3.37	ND	ND - 11.0	ND - 11	3.1	Erosion of natural deposits	
Uranium	pCi/l	20	0.43	ND - 5.2	ND - 3.04	ND	ND - 15.0	ND - 15	0.5	Erosion of natural deposits	
LEAD AND COPPER DISTRIBU	JTION SYSTEM	MONITORING	G (2012 Resu	lts)			-	-	-		
	UNIT			NUMBER OF	90TH	NUMBER OF					
	OF	AL	PHG	SAMPLES	PERCENTILE	SITES	SOURCES OF CONTAMINATION				
	MEASURE			COLLECTED	LEVEL	EXCEEDING AL					
Lead	Ug/I	15	0.2	37	5.3	2	Internal corrosion of household water plumbing system; erosion of natural deposits				
Copper	Mg/I	1.3	0.3	37	0.12	0					

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. The City 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.

SECONDARY STANDARDS: Aesthetic Standards

	UNIT OF	SECONDARY MCL	PHG		ER SOURCES		NORCO SYSTEMWIDE		SOURCES OF CONTAMINATION	
				***WELL ARLINGTON		CHINO				W.M.W.D.
	MEASURE			WATER	DESALTER	DESALTER	MILLS	RANGE	AVERAGE	
Turbidity	NTU	5	NS	0.1 - 0.3	ND - 0.46	ND - 0.9	ND - 0.12	ND - 0.3	0.01	Soil runoff
Odor Threshold Units	UNITS	3	NS	1	ND - 2	ND - 1.0	ND - 3.0	ND - 1.0	0.3	Naturally occurring
Chloride	Mg/I	500	NS	130 - 230	30 - 41	11.0 - 84.0	ND - 90	65 - 230	86.4	Naturally occurring
Sulfate	Mg/I	500	NS	34 - 66	36 - 50	9.0 - 14.0	ND - 220	11 - 113	45.3	Naturally occurring
Total Dissolved Solids "TDS"	Mg/I	1000	NS	480 - 680	190 - 390	160 - 450	ND - 680	312 - 680	357.8	Naturally occurring
pH Units	UNITS	NS	NS	7.4 - 8.8	7.0 - 8.7	7.3 - 8.0	7.3 - 9.1	7.4 - 8.8	8.2	Naturally occurring
Hardness as (CaCO3)	Mg/I	NS	NS	38 - 190	110 - 140	130 - 210	ND - 320	25 - 230	117.9	Naturally occurring
Sodium	Mg/I	NS	NS	130 - 150	36 - 41	24 - 31	ND - 91	27 - 180	72.7	Naturally occurring
Calcium	Mg/I	NS	NS	10.0 - 66.0	28 - 35	42 - 67	ND - 84	10.0 - 84	32.2	Naturally occurring
Potassium	Mg/I	NS	NS	ND - 3.0	<1.0 - 1.3	1.0 - 2.0	ND - 5.0	ND - 3.4	1.3	Naturally occurring
Magnesium	Mg/I	NS	NS	ND - 11	10.0 - 13.0	5.7 - 10.0	ND - 28.0	ND - 15	9.8	Naturally occurring
Manganese	Ug/l	50	NS	ND - 27	ND	ND	ND	ND - 27	2.1	Naturally occurring
Iron	Ug/l	300	NS	ND	ND	ND - 180	ND	ND - 140	ND	Naturally occurring
ADDITIONAL MONITORING										
Boron	Ug/l	NL = 1,000	NL = 1,000	1,800 - 3,900	ND	ND	ND - 1.0	ND - 3,900	850.2	Petroleum By-product
Vanadium	Ug/l	NL = 50	NL = 50	ND - 4.4	4.1 - 6.1	1.0 - 1.9	ND - 3.4	ND - 5.0	0.7	

***Well Water Results from Samples Taken 2012 - 2014

DEFINITIONS, ABBREVIATIONS AND NOTES

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 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.

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 and MCLGs as is economically and technologically feasible. Secondary MCLs are set to protect the odor, taste, and appearance of drinking water.

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 not known or expected risk to health. MRDLGs do not reflect the benefits of the use of disinfectants to control microbial contaminants.

PRIMARY DRINKING WATER STANDARD (PDWS): MCLs and MRDLs for contaminants that affect health along with their monitoring and reporting requirements, and water treatment requirements.

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

mg/L	Milligrams per liter (parts per million) is equal in time to one second out of a week and a half.								
ug/L	Micrograms per liter (parts per billion) translates to just one second in nearly 33 years.								
pČi/L	Pico curies per liter is a measure of radioactivity in water.								
NTU	Nephelometric turbidity unit is the measurement of suspended material.								
NS	No Standard <less applicable="" level<="" na="" nl="" not="" notification="" th="" than=""></less>								
ND	None Detected, laboratory analysis indicates that the constituent is not present.								

*Nitrate: Nitrates in drinking water at levels above 45 mg/L is considered a health risk for infants less than six months of age. Nitrates at these 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 45 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 provider. Nitrate levels may rise quickly for short periods of time because of rainfall or agricultural activity. Large fluctuations of nitrate levels are not common in Norco; the City is consistently below the MCL.

**Fluoride Variance: The City of Norco has natural occurring fluoride levels in some of their groundwater wells that exceed the State MCL of 2.0 mg/L. In 1998, the City held public hearings and obtained a variance from compliance with the State fluoride standard. The variance established the City's standard at 3.0 mg/L, or three fourths of the Federal MCL of 4.0 mg/L. To ensure compliance with the variance standard, the City routinely collects fluoride samples at each active groundwater source and at a designated sample location in the distribution system. The established compliance point represents the fluoride concentration in the water served to our customers, and compliance with the variance standard is based on a running annual average of 4 consecutive quarterly averages. The results for sampling completed during 2014 are provided in the enclosed table. During 2014, the highest running annual average was 2.9 mg/L. Some people who drink water containing fluoride in excess of the Federal MCL of 4.0 mg/L over many years may contract bone disease, including pain and tenderness of the bones. Children who drink water containing fluoride in excess of the State MCL of 2.0 mg/L may result in mottled teeth. The City will be constructing a blending facility to reduce the fluoride levels in the water served to our residents.

A NOTE FROM THE EPA

The sources of drinking water (both tap and bottled water) include rivers, lakes, streams, ponds, reservoirs, springs, and wells. As water travels over land or through the ground, it dissolves naturally occurring minerals and, in some cases, radioactive material, and can also pickup substances resulting from the presence of animals or from human activity. 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 U.S. Environmental Protection Agency's Safe Drinking Water Hotline (1-800-426-4791).

Contaminants that may be present in source water include:

- Microbial contaminants, such as viruses and bacteria that may come from sewage treatment plants, septic tanks, agricultural livestock operations, and wildlife.
- Inorganic contaminants, such as salts and metals, which can be naturally occurring or result from urban storm water runoff, industrial, or domestic wastewater discharges, oil and gas production, mining, or farming.
- Pesticides and herbicides, which may come from a variety of sources such as agriculture, urban storm water, 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 storm water runoff, agricultural application, and septic tanks.
- Radioactive contaminants, which can be naturally occurring or be the result of oil and gas production and mining activities.

In order to ensure your tap water is safe to drink, the U.S. Environmental Protection Agency (USEPA) and the State Water Resources Control Board (State Board), Division of Drinking Water prescribe regulations that limit the amount of certain contaminants in water provided by public water systems. State Board regulations also establish limits 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 infection. These people should seek advice about drinking water from their healthcare 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).

Public participation regarding water quality issues are welcome at our Streets, Trails & Utilities Commission meetings, which are held at 7:00 p.m. on the first Monday of every other month, 6 times per year, at the Norco City Hall, Council Chambers, located at 2870 Clark Avenue, Norco, California. Norco water operations staff is also available to answer any questions you may have regarding our water supply at (951)270-5607.

SPECIAL NOTICE TO ALL EMPLOYERS, LANDLORDS, AND SCHOOLS, State Law (Section 116465(G) (3) of the California Health and Safety Code) requires that you provide copies of this notice to all of your employees, tenants, or students (and parents of minor students) within ten days of you receiving this notice. Generally, you may fulfill this responsibility by posting this notice at each site where drinking water is dispensed and/or mailing a copy of the notice. Failure to give notice as required could make you civilly liable in an amount not to exceed \$1,000 for each day of delay in notification.

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PLEASE CONSERVE WATER

Where to Contact Us

Should you have additional questions regarding your water quality, please feel free to contact us at: **Public Works Department** 951-270-5607; **Utility Billing** 951-270-5654;

Este informe contiene information muy importante sobre su agua de beber. Traduzcalo o hable con alguien que lo entienda bien 951-270-5607