

The Water You Drínk



Annual Water Quality Consumers Confidence Report

YEAR 2016



YEAR 2016

This Consumer Confidence Report is mandated by the United States Environmental Protection Agency (USEPA) and is designed to give you, the consumer, all pertinent information relative to the production and distribution of safe drinking water for Needles.

The City of Needles Water Department is dedicated to providing a safe and reliable supply of water. We continually test our water to make sure that it meets State and Federal standards for quality and safety.

GROUND WATER is the source of the Needles water supply. Currently approximately 781 million gallons per year are pumped from four (4) wells. The wells are approximately 100 feet deep and are located in the lower part of the City.

WATER DISTRIBUTION system consists of 66 miles of lines varying in diameter from 2" to 16". Lines are constructed of ductile iron, asbestos cement, steel and plastic pipe

WATER STORAGE capacity for the Needles water supply is provided by two 1.5 million gallon tanks for the lower pressure zone and one 1.5 million gallon tank and one 100,000 gallon tank for the upper pressure zone.

WATER QUALITY drinking water standards are established both by the State Water Resources Control Board (State Board), Division of Drinking Water and by the United States Environmental Protection Agency (USEPA) in compliance with the Safe Water Drinking Act. The standards fall into two categories:

- 1) Primary Standards relate specifically to the health of the community as it might be affected by the water supply. mandatory maximum contaminant levels are established for specific constituents
- Secondary Standards relate to aesthetic qualities of the water including taste, odor, color and some metals. In California, maximum contaminant levels are established for those constituents as well.

Water samples are taken monthly from Needles water wells and distribution system to assure compliance with Primary and Secondary standards. Results of all analyses indicate compliance with all primary health standards.

Iron and Manganese is a secondary standard (which occurs naturally in some ground waters) that may, even at low concentrations, cause staining of fixtures or laundry. The concern about these minerals is solely aesthetic and has no health significance whatsoever.

All drinking water, including bottled water, may be reasonably 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).

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

Through this annual report, we hope to have furthered your understanding and confidence in the quality and integrity of the water supplied and delivered directly to you by the City of Needles Water Department.

Source Number	rce Number Source ID Most Vulnerable Activities (PCA's)			
		Housing, Schools	Arsenic* (see below	
005	Well 08	Automobile repair shops, Septic systems, Sewers, Historic waste dumps/landfills	None	
007	Well 11	Campground/recreational areas, Apartments and condominiums, RV parks, Schools, Septic systems	Arsenic* (see below	
		Automobile repair shops, Historic gas stations, Sewers	None	
008	Well 12	Irrigated crops, Septic systems	Nitrate* (see below	
		Parks, RV parks, Apartments and condominiums, Schools, Campgrounds/recreational areas, Septic systems	Arsenic* (see below	
		Automobile gas stations, Wastewater treatment plants	None	
011	Well 15	Irrigated crops	Nitrate* (see belov	
		Parks, Apartments and condominiums, RV parks, Campground/recreational areas septic systems Low density	Arsenic * (see below)	
		Automobile gas stations	None	

A copy of the complete assessment may be viewed at the City of Needles office, or at the SWRCB, DDW San Bernardino District Office, 464 W. 4th Street, Suite 437, San Bernardino, CA 92401.You may request a summary of the assessment be sent to you by contacting the SWRCB District Engineer at (909) 383-4308.

	PRIMAR	Y DRINKIN	IG WATER ST	ANDAR	DS (Test Re	esults)	
YEAR TESTED 2015/2016 INORGANIC CONTAMINANTS							
Hardness	mg/L	350 - 820	520	ns	ns	Erosion of Natural Deposits	
Calcium	mg/L	85 - 200	128.3	ns	ns	Erosion of Natural Deposits	
Sulfate	mg/L	280 - 610	372.5	600	ns	Erosion of Natural Deposits	
Chloride	ug/L	120 - 320	200	600	ns	Erosion of Natural Deposits	
Nitrate (NO3)	mg/L	ND – 1.4	1.3	45	45	Erosion of Natural Deposits	
Fluoride	ug/L	0 -1.9	1.26	2	1	Erosion of Natural Deposits	
Specific Conductance	Umho/cm	1000 - 2100	1425	2200	n/a	Erosion of Natural Deposits	
Total Dissolved Solids	mg/L	720 - 1600	1050	1500	n/a	Erosion of Natural Deposits	
Turbidity	NTU	0 – 4.6	1.69	5	n/a	Erosion of Natural Deposits	
Iron	ug/L	0 - 79	75.5	300	n/a	Erosion of Natural Deposits	
Aluminum	ug/L	0 - 0	0	1000	n/a	Erosion of Natural Deposits	
	2.		METALS - 01	HER	·	•	
Chemical	Unit of	Needles	Needles	State	MCL Goal /	Typical Source of	
Constituent	Measure	Range	Average	MCL	PHG	Contamination	
Arsenic	ug/L	0 - 3.3	3.3	10	none	Erosion of Natural Deposits	
Manganese	ug/L	.054 -27	7	50	n/a	Erosion of Natural Deposits	
Magnesium	mg/L	.63 - 43	29.9	ns	ns	Erosion of Natural Deposits	
Sodium	mg/L	160 - 420	262.5	ns	ns	Erosion of Natural Deposits	
Chromium	ug/L	ND – 2.1	2.1	10	ns	Erosion of Natural Deposits	
Carbonate Alkalinity	mg/L	ND - ND	ND	ns	ns	Erosion of Natural Deposits	
Bicarbonate	mg/L	170 - 260	202.5	ns	ns	Erosion of Natural Deposits	
pН	units	7.55 – 7.87	7.7	n/s	ns	Erosion of Natural Deposits	
Barium	ug/L	20 - 49	33	1000	1000	Erosion of Natural Deposits	
Selenium	ug/L	0 - 3.2	2.9	50	n/a	Erosion of Natural Deposits	
Chloroform	ug/L	ND	ND	100	n/a	Erosion of Natural Deposits	
MTBE	ug/L	< 3	< 3	5	n/a	Leaking Underground Tanks	
	RA	DIOACTIVE	CONTAMINAN	ITS – 20	15 and 2016	5	
Radioactive	Unit of Measure	Range	Average	MCL	MCL Goal / PHG	Typical Source of Contamination	
Contaminant							
Gross Alpha	pCi/L	.856 – 7.23	4.5	15	Zero	Erosion of Natural Deposits	
Total Radium -228	pCi/L	0.0081	.05	3	N/A	Erosion of Natural Deposits	

DISTRIBUTION SYSTEM WATER QUALITY

Micobiological Contaminents (units)	PRMARY MCL	PHG (MCLG)	Value	MCL Violation?	Most Recent Sampling Date	Typical Source of Constituent
Total Coliform Bacteria (% of monthly positive samples)	More than 5% of monthly samples are positive	(0)	ND	No	2016	Naturally present in the environment
Fecal Coliform and E. coli Bacteria (number of monthly positive samples)	A routine sample and a repeat sample are total coliform positive, and one is also Fecal Coliform or E.coli positive	(0)	0	No	2016	Human and animal fecal waste

LEAD AND COPPER (units)	ACTION LEVEL	PHG (MCLG)	Range of Detection	90 th % Level	MCL Violation?	Most Recent Sampling Date	Typical Source of Constituent
Copper (mg/L)	1.3	0.17	.01336	.28	No	2016	Internal corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives. No samples collected exceeded the action level.
Lead (mg/L)	.015	0	0013	.0039	No	2016	Internal corrosion of household water plumbing systems; discharges from industrial manufacturers, erosion of natural deposits. No samples collected exceeded the action level.

What Do All These Terms Mean?

SWRCB: State Water resources Control Board Maximum Contaminant Level Goal (MCGL) The level of a contaminant in drinking water below which there is no known or expected risk to health. Maximum Contaminant Level (MCL) The highest level of a contaminant that is allowed in drinking water. Public Health Goal (PHG) The goal set for water quality by public health agencies. Primary Drinking Water Standards Primary MCLs, specific treatment techniques adopted in lieu of primary MCLs, and monitoring and reporting requirements for MCLs that are specified in regulations. **mg/L:** milligrams per liter (parts per million) **ug/L:** micrograms per liter (parts per billion) **ND:** not detectable testing limit **pCi/L:** Pico curies per liter (a measure of radiation) **Range:** the lowest to the highest level detected ns: no standard

n/a: not applicable **pca:** possible contaminating activities



Water Conservation

Water- Just turn on the faucet and it's there. But that does not mean we should take it for granted or waste this precious resource.

The high-quality water we need and expect is not an infinite resource. We must be responsible in our use of water. Keeping our waterways clean and free of pollutants is one way to do this. Another is to be conservative in how we use water.

Questions regarding this report can be directed to the City Utility Services Office At 760-326-5700

Parts per million:

3 drops in 42 gallons ~ 1 second in 12 days 1 inch in 16 miles ~ 1 penny in \$10,000

Parts per billion:

1 drop in 14,000 gallons $\ \sim \ 1$ second in 32 years 1 penny in \$10 million $\ \sim \ 1$ inch in 16,000 miles

This report contains important information about your drinking water. Translate it, or speak with someone who understands it. \mathfrak{I} - Spanish: Este informe contiene informacion muy importante sobre su agua potable. Traduzcalo o hable con alguien que lo entienda bien.