



# *The Water You Drink*



**Annual Water Quality Consumers  
Confidence Report**

**YEAR 2014**



# YEAR 2014

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
- 2) 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.

**A source water assessment was conducted for Wells 8, 11,12 and 15 of the City of Needles  
In March 2002 (samples taken in 2014) and is summarized in the table below:**

Source Number	Source ID	Most Vulnerable Activities (PCA's)	Chemical Detected
005	Well 08	Housing, Schools	Arsenic* (see below)
		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 below)
		Parks, Apartments and condominiums, RV parks, Campground/recreational areas septic systems Low density	Arsenic * (see below)
		Automobile gas stations	None

**\* Note: Even though some arsenic and nitrates were detected, all are below the state and federal regulations for maximum contaminant level. All water meets the primary drinking water standards.**

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. 4<sup>th</sup> 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.

## PRIMARY DRINKING WATER STANDARDS (Test Results)

### YEAR TESTED 2013/2014

#### INORGANIC CONTAMINANTS

Chemical Constituent	Unit of Measure	Needles Range	Needles Average	State MCL	MCL Goal / PHG	Typical Source of Contamination
Hardness	mg/L	300 - 590	412	ns	ns	Erosion of Natural Deposits
Calcium	mg/L	79 - 140	101.25	ns	ns	Erosion of Natural Deposits
Sulfate	mg/L	260 - 540	345	600	ns	Erosion of Natural Deposits
Chloride	ug/L	0 - 270	162.5	600	ns	Erosion of Natural Deposits
Nitrate (NO3)	mg/L	ND - 8.4	2.1	45	45	Erosion of Natural Deposits
Fluoride	ug/L	0 - .52	.13	2	1	Erosion of Natural Deposits
Specific Conductance	Umho/cm	1100 - 2700	1725	2200	n/a	Erosion of Natural Deposits
Total Dissolved Solids	mg/L	670 - 1600	1095	1500	n/a	Erosion of Natural Deposits
Turbidity	NTU	0 - .96	.345	5	n/a	Erosion of Natural Deposits
Iron	ug/L	0 - 200	57.25	300	n/a	Erosion of Natural Deposits
Aluminum	ug/L	0 - 0	0	1000	n/a	Erosion of Natural Deposits

#### METALS - OTHER

Chemical Constituent	Unit of Measure	Needles Range	Needles Average	State MCL	MCL Goal / PHG	Typical Source of Contamination
Arsenic	ug/L	0 - 6.2	3.1	10	none	Erosion of Natural Deposits
Manganese	ug/L	26 - 29	27.5	50	n/a	Erosion of Natural Deposits
Magnesium	mg/L	26 - 57	38.5	ns	ns	Erosion of Natural Deposits
Sodium	mg/L	110 - 290	192.5	ns	ns	Erosion of Natural Deposits
Chromium	ug/L	ND - 2.5	.625	10	ns	Erosion of Natural Deposits
Carbonate Alkalinity	mg/L	<3 - <3	<3	ns	ns	Erosion of Natural Deposits
Bicarbonate	mg/L	170 - 310	225	ns	ns	Erosion of Natural Deposits
pH	units	7.7 - 7.79	7.7	n/s	ns	Erosion of Natural Deposits
Barium	ug/L	0 - 40	22.8	1000	1000	Erosion of Natural Deposits
Selenium	ug/L	0 - 9.1	4	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

#### RADIOACTIVE CONTAMINANTS - 2010 and 2013

Radioactive Contaminant	Unit of Measure	Range	Average	MCL	MCL Goal / PHG	Typical Source of Contamination
Gross Alpha	pCi/L	3.49 - 13.1	7.71	15	Zero	Erosion of Natural Deposits
Total Radium -228	pCi/L	0.0 - .081	.05	3	N/A	Erosion of Natural Deposits

## DISTRIBUTION SYSTEM WATER QUALITY

Microbiological Contaminants (units)	PRIMARY 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	2013	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	2013	Human and animal fecal waste

LEAD AND COPPER (units)	ACTION LEVEL	PHG (MCLG)	Range of Detection	90 <sup>th</sup> % Level	MCL Violation?	Most Recent Sampling Date	Typical Source of Constituent
Copper (ug/L)	1300	0.17	0 - 870	870	No	2013	Internal corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives. No samples collected exceeded the action level.
Lead (ug/L)	15	0	0 - 110	5.7	No	2013	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 (MCLG)**

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 ~ 1 second in 32 years  
 1 penny in \$10 million ~ 1 inch in 16,000 miles

*This report contains important information about your drinking water. Translate it, or speak with someone who understands it.*

☞ - Spanish: **Este informe contiene informacion muy importante sobre su agua potable. Traduzcalo o hable con alguien que lo entienda bien.**