



TPWD

2015 Consumer Confidence Report

JUNE 2016

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



The Twentynine Palms Water District is pleased to provide you with our 2015 Consumer Confidence Report.

Included in this report are details about where your water comes from, what it contains, and how it compares to standards set by regulatory agencies.

Your water comes from 8 different well sites that

are pumped from four different underground aquifers. Well 14 and Well 17 pump water from the Fortynine



Palms Groundwater Basin. Well 9, Well 11, Well 12, and Well 15 pump water from the Indian Cove Groundwater Basin. Well 16 pumps water from the Eastern Groundwater Basin. Well TP-1 pumps water from the Mesquite Springs Groundwater Basin.

SOURCE ASSESSMENTS. In April of 2002, the District completed source water assessments for all active drinking water wells. Wells 14 and 16 are considered most vulnerable to the following activities associated with the contaminants detected in the water supply: septic systems, high density housing, office buildings/complexes, and schools and parks. In addition, all wells are vulnerable to one or more of the following activities: automobile repair shops, private wells, historic gas stations, roads, highways, fleet terminals, and maintenance areas. However, no contaminants have been detected. A copy of the completed assessment is available at the Twentynine Palms Water District main office or at the State Water Resources Control Board, Division of Drinking Water, San Bernardino District Office, 464 West 4th Street, Suite 437, San Bernardino, CA, 92401.

Mandatory Restrictions and Prohibitions.

In response to Governor Brown's Executive Order B-29-15 and regulations adopted by the Office of Administrative Law all urban water suppliers are required to reduce overall water production by a certain percentage, determined by the State Water Resources Control Board (State Board), in comparison to 2013 and to implement mandatory water restrictions to comply with the Emergency Drought Regulations or be subject to large fines. The State Board has placed the Twentynine Palms Water District into conservation goal Tier 7 that requires a 24% reduction in overall potable water produced. Effective immediately, the following restrictions apply:



Outdoor irrigation of ornamental landscapes and turf are prohibited between the hours of 9 a.m. and 6 p.m. Applying water to outdoor landscapes in a manner that causes runoff such that water flows onto adjacent property, non-irrigated areas, private and public walkways, roadways, parking lots, or structures is prohibited;



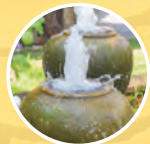
Using a hose to wash an automobile except where the hose is equipped with a shut-off nozzle is prohibited;



Applying water to any hard surface including, but not limited to, driveways, sidewalks, and asphalt is prohibited;



Limit outdoor irrigation of ornamental landscapes or turf with potable water to no more than 3 days per week;



Using potable water in a fountain or other decorative water feature, except where the water is part of a recirculating system is prohibited;



Restaurants shall serve water only upon request;



The application of potable water to outdoor landscapes during and within 48 hours after measurable rainfall;



Controllable leaks shall be repaired within a reasonable period of time after notification;



WATER PROTECTION

Household chemicals and waste can pollute our water supply if we do not use them correctly and dispose of them properly. If they are flushed down the drain, they may end up in our groundwater. You can protect our water quality by using and disposing of household chemicals and waste with care. Do not throw them in the trash, take them to a hazardous waste collection facility instead. You can also reduce/eliminate herbicide and pesticide applications as well as recycle used oil and other automotive products. For more information regarding disposal please call San Bernardino County Fire Department Household Hazardous Waste Program at 1-800-645-9228.

GET INVOLVED

Our regular Board of Directors Meetings are held on the fourth Wednesday of each month at 6 p.m., in the District's administration building located at 72401 Hatch Road in Twentynine Palms. The public is invited to attend. Board meetings are also televised on cable channel 10 at 10 a.m. on Saturdays and 5 p.m. on Sundays. To confirm meeting dates, times, and locations, please contact the District Secretary (760-367-1792 x 308) or visit our website at www.29palmswater.org.

If you have questions about this report or the fluoride variance, please contact Ray Kolisz, General Manager at (760-367-7546).

*For a complete list of restrictions and additional water conservation information please visit our website at www.29palmswater.org/water-conservation.html. Please also visit the District's native and drought tolerant demonstration garden, between the hours of 8am-3pm Mon-Fri, located at 72401 Hatch Road, Twentynine Palms.

WATER QUALITY TEST RESULTS FOR TWENTYNINE PALMS WATER DISTRICT

DETECTION OF CONTAMINANTS WITH A PRIMARY DRINKING WATER STANDARD (PDWS)						
	Sample Date	Avg. Level Detected	Range of Detections	MCL [MRDL]	PHG (MCLG) [MRDLG]	Typical Source of Contaminant
Disinfection Byproducts, Disinfectant Residuals, and Disinfection Byproduct Precursors						
Chlorine (ppm)	2015	.19	.01-.44	[MRDL=4.0 (as Cl ₂)]	[MRDLG=4 (as Cl ₂)]	Drinking water disinfectant added for treatment.
Total Trihalomethanes (TTHM) (ppb)	2015	5.43	ND-10.5	80	N/A	By-product of drinking water disinfection.
Inorganic Contaminants						
Arsenic (ppb)	2015	4.99	ND-9.6	10	0.004	Erosion of natural deposits; runoff from orchards; glass and electronics production wastes.
Hexavalent Chromium (ppb) ¹	2015	11.85	ND-28	10	0.02	Discharge from electroplating factories, leather tanneries, wood preservation, chemical synthesis, refractory production, and textile manufacturing facilities; erosion of natural deposits
Chromium (ppb)	2015	2.9	ND-23	50	(100)	Discharge from steel and pulp mills and chrome plating; erosion of natural deposits.
Fluoride (ppm)	2015	1.44	.33-2.5	2.0*	1	Erosion of natural deposits; water additive which promotes strong teeth; discharge from fertilizer and aluminum factories.
Nitrate (as Nitrate, NO ₃) (ppm)	2015	14.00	7.3-14	45	45	Runoff and leaching from fertilizer use; leaching from septic tanks and sewage; erosion of natural deposits.
Radioactive Contaminants						
Gross Alpha Particle Activity (pCi/L)	2015	13.05	5.1-30	15	(0)	Erosion of natural deposits.
Uranium (pCi/L)	2015	11.34	3.7-20	20	0.43	Erosion of natural deposits.

¹ Pursuant to a California regulation adopted July 1, 2014, the level of a substance called hexavalent chromium should not exceed 0.010 mg/l in drinking water provided by a public water system. This number is known as the maximum contaminant level or MCL. Senate Bill 385, which became law effective September 4, 2015, allows public water systems, with sources that produce water with a hexavalent chromium concentration above the MCL, time to come into compliance. So long as a public water system complies with the new law (Health & Safety Code, section 116431), it will not be deemed in violation of the MCL. In addition to other requirements, the new law requires the water system to come into compliance at the earliest feasible date prior to January 1, 2020.

DETECTION OF LEAD AND COPPER - Collected at customer tap							
	Sample Date	No. of Samples Collected	90th Percentile Level Detected	No. Sites Exceeding AL	AL	PHG	Typical Source of Contaminant
Lead and Copper							
Copper (ppm)	2014	30	.10	None	1.3	.3	Internal corrosion of household water plumbing systems; erosion of natural deposits; leaching from wood preservatives.

DETECTION OF CONTAMINANTS WITH A SECONDARY DRINKING WATER STANDARD (SDWS)
There are no PHGs or MCLGs for contaminants with secondary drinking water standards because these are not health based levels, but set on the basis of aesthetics.

	Sample Date	Avg. Level Detected	Range of Detections	MCL [MRDL]	PHG (MCLG) [MRDLG]	Typical Source of Contaminant
Contaminant						
Chloride (ppm)	2015	12.51	8.0-13	500	N/A	Runoff/leaching from natural deposits; seawater influence.
Odor--Threshold (units)	2015	1	1	3	N/A	Naturally-occurring organic materials.
Specific Conductance (micromhos)	2015	298	210-290	1600	N/A	Substances that form ions when in water; seawater influence.
Sulfate (ppm)	2015	21.4	9.8-85	500	N/A	Runoff/leaching from natural deposits; industrial wastes.
Total Dissolved Solids (TDS) (ppm)	2015	176	120-340	1000	N/A	Runoff/leaching from natural deposits.
Microbiological Contaminants						
Turbidity (units)	2015	.175	ND-1.4	5	N/A	Soil runoff.

DETECTION OF UNREGULATED CONTAMINANTS
Unregulated contaminant monitoring helps the USEPA and the California Department of Health Services to determine where certain contaminants occur and whether the contaminants need to be regulated.

	Sample Date	Avg. Level Detected	Range of Detections	MCL [MRDL]	PHG (MCLG) [MRDLG]	Typical Source of Contaminant
Chemical or Contaminant						
Hardness (ppm)	2015	65	41-90	N/A	N/A	Generally found in ground and surface water.
Sodium (ppm)	2015	38	14-110	N/A	N/A	Generally found in ground and surface water.
Vanadium (ppb)	2015	9.9	3.5-24	N/A	N/A	Naturally-occurring element.

TABLE DEFINITIONS

In this report, you might find terms and abbreviations that you may not be familiar with. To help you better understand these terms, the District has provided the following definitions:

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.

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 (USEPA).

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 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 techniques.

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

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

ND: Not detectable at testing limit. **N/A:** Non applicable

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

ppb: Parts per billion or micrograms per liter (ug/L).

pCi/L: Picocuries per liter (a measure of radiation).

WATER QUALITY DATA

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 agricultural, 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 the result of oil and gas production and mining activities.

In order to ensure that tap water is safe to drink, the USEPA and the 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 must provide the same protection for public health. Unless otherwise noted, the following data presented in this table lists all of the drinking water contaminants that were detected during the 2015 calendar year. The presence of these contaminants in the water does not necessarily indicate that the water poses a health risk. The State 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.

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 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. 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).

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. Twentynine Palms 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 <http://www.epa.gov/safewater/lead>.



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 cost of removing arsenic from drinking water. The United States 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.

* The current State limit for fluoride in drinking water permits an MCL (Maximum Contaminant Level) of 2.0 milligrams per liter (mg/L). On January 21, 1993, the Twentynine Palms Water District was granted a variance from the California Primary Drinking Water Standard for fluoride, which states "The District shall not serve water containing fluoride levels in excess of 3.0 milligrams per liter (mg/L) or 75% of the U.S. Environmental Protection Agency Primary Drinking Water Standard (currently at 4.0 mg/L), whichever is higher." This variance was granted due to the elevated levels of naturally occurring fluoride in our source water. The beneficial effects of fluoride in drinking water approach a maximum at concentrations of 1.0 to 1.5 mg/L. Higher fluoride levels may cause dental fluorosis and in severe cases can be identified as mottled areas of the teeth. Based on dental research, fluorosis can only occur during the tooth-forming period, which is approximately before the age of 12. There are no other known ill effects, at the levels typically served by the District, of any kind found associated with fluoride in drinking water. As such, it is recommended that children under the age of 12 use an alternative drinking water supply. The variance from the Primary Drinking Water Standard for fluoride shall be in effect for a period of up to 30 years from the date of issuance subject to the following provisions:

1. Every five years, beginning in January 1998, the District shall submit a report to the State Board evaluating community acceptance of the fluoride levels being served.
2. The State Board advises the District in writing of its findings that there is no significant public opposition from the community served by the District and that the variance does not pose an unreasonable risk to the consumer's health.

Other provisions to the variance include:

1. That the variance may be withdrawn upon reasonable notice by the State Board, if it determines that the community no longer accepts the fluoride level authorized by the variance.
2. The District shall provide quarterly consumer notification of the variance in accordance with Section 64464.6 of the California Domestic Water Quality and Monitoring Regulations.
3. A fluoride monitoring plan, approved by the State Board, that monitors and reports all fluoride levels in the distribution system and water produced by all sources.

The District maintains acceptable levels of fluoride through the use of wells with lower levels of fluoride being pumped as much as possible when water demand on the system dictates. In April 2004, the State Board issued a permit to the District allowing full operation of the Fluoride Removal Plant, which currently is producing approximately 1.2 million gallons a day (1.2 MGD) of potable drinking water. The plant extracts water from the Mesquite Springs aquifer to remove high levels of naturally occurring fluoride. This aquifer is a significant source of water for the District and on-going studies will determine future production rates from the plant to better manage our groundwater resources.



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