

West Caldwell Township
Water Utility
30 Clinton Road
West Caldwell, NJ 07006



Your Tap Water Makes the Grade For The Year 2017!

West Caldwell's Drinking Water News

Water is an important element in our lives. Did you know that water makes up 65% of our bodies? And health experts recommend that we drink eight glasses of water a day? Safe, clean water is essential to our wellbeing. That's why we want you to know that our water meets – and often surpasses – all health and safety standards set by the United States Environmental Protection Agency (EPA) and the New Jersey Department of Environmental Protection (NJDEP). The West Caldwell Water Utility is dedicated to providing you and your family with water that is safe and healthful.

The West Caldwell Water Utility purchases our water from the Passaic Valley Water Commission. Last year, West Caldwell and the Passaic Valley Water Commission regularly collected and tested water samples to assure your water met all safety standards; and we're proud to let you know that it did. All the test results are on file with the NJDEP, the agency that monitors and regulates drinking water quality in our State. In all cases, our water was as good as – or better than – the government requirements.

The EPA and NJDEP establish drinking water regulations. They also require water suppliers to make available Drinking Water Quality Reports to customers on an annual basis. This Drinking Water Quality Report provides important information about your drinking water. Please read it carefully, and feel free to call us at (973) 226-2300 if you have any questions about your water or your water service. Or, you can call the EPA Safe Drinking Water Hotline at (800) 426-4791. In addition, you may attend the West Caldwell Township Council Public Meeting, which is held the third Tuesday of each month at 7:15 p.m., Town Hall, 30 Clinton Road, West Caldwell.

Water Quality Table

During 2016, your water met or surpassed all standards for safety.

The water quality table shows how the quality of your drinking water compares to the standards set by the EPA and the NJDEP, as outlined in the Safe Drinking Water Act (SDWA). When standards differed the more stringent standard was used for the MCL.

SDWA Primary Standards (Directly related to the safety of drinking water)

PRIMARY CONTAMINANTS	Compliance Achieved	MCLG	MCL	Water Treatment Plant Result		Typical Source
				PVWC Little Falls WTP PWS ID NJ1605002	NJDWSC Wanaque WTP PWS ID NJ1613001	
TURBIDITY AND TOTAL ORGANIC CARBON				Highest Result (Range of Results)	Highest Result (Average)	
Turbidity (NTU)	Yes	NA	TT=1	0.17 (0.03 - 0.17)	0.38 (0.12)	Soil runoff.
	Yes	NA	TT=percentage of samples <0.3 NTU (min 95% required)	100%	99.7%	
Total Organic Carbon, %	Yes	NA	TT= % removal; or removal ratio	Percent (%) Removal	Removal Ratio	Naturally present in the environment.
				51 - 75 (35 - 50 required)	1.0 (RAA) (0.76 - 1.0)	
INORGANIC CONTAMINANTS				Highest Result (Range of Results)		
Barium, ppm	Yes	2	2	0.024 (0.015 - 0.024)	0.014	Discharge of drilling wastes; discharge from metal refineries; erosion of natural deposits.
Chromium, ppb	Yes	100	100	0.60 (ND - 0.60)	ND	Discharge from steel and pulp mills; erosion of natural deposits.
Fluoride, ppm	Yes	4	4	0.087 (0.07 - 0.087)	ND	Erosion of natural deposits.
Nickel, ppb	NA	NA	NA	2.75 (1.54 - 2.75)	ND	Erosion of natural deposits.
Nitrate, ppm	Yes	10	10	4.05 (0.72 - 4.05)	0.284	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits.
Selenium, ppb	Yes	50	50	0.74 (ND - 0.74)	ND	Discharge from petroleum and metal refineries; Erosion of natural deposits. Discharge from mines.
Thallium, ppb	Yes	0.5	2	0.6 (ND - 0.6)	ND	Leaching from ore-processing sites; Discharge from electronics, glass, and drug factories.

PRIMARY CONTAMINANTS MICROBIOLOGICAL CONTAMINANTS	Compliance Achieved	MCLG	MCL	Distribution Systems Samples	Typical Source
Total Coliform Bacteria (%)	Yes	0	5% of monthly samples are positive.	0	Naturally present in the environment.
Fecal Coliform or E.coli Bacteria (#)	Yes	0	0	0	Human and animal fecal waste.
DISINFECTION BYPRODUCTS				Highest LRAA	
Haloacetic Acids (HAA5) (ppb)	Yes	NA	60	26.62 (Range 18.0 - 34.4)	By-product of drinking water disinfection.
Total Trihalomethanes (TTHM) (ppb)	Yes	NA	80	65.22 (Range 37.9 - 97.5)	By-product of drinking water disinfection.

Some people who drink water containing trihalomethanes in excess of the MCL over many years may experience problems with their liver, kidneys or central nervous system and may have an increased risk of getting cancer.

DISINFECTANTS	Compliance Achieved	MCLG	MCL	Highest Result	Typical Source
Chlorine (ppm)	Yes	MRDLG=4	MRDL=4	2.40	Water additive used to control microbes.
LEAD AND COPPER				90th Percentile	
Copper (ppm)	Yes	1.3	1.3	0.207	Corrosion of household plumbing systems; Erosion of natural deposits; Leaching from wood preservatives.
DETECTED UNREGULATED CONTAMINANTS - UCMR3 DATA					
Lead (ppb)	Yes	0	15	7.49	Corrosion of household plumbing systems; Erosion of natural deposits.

ADDITIONAL PVWC TREATMENT PLAN MONITORING RESULTS

Detected Contaminants, ppb	Little Falls WTP Effluent Average (Range)	Notes
Chlorate	250 (ND - 495)	Test results presented in this table were collected in 2016 as part of a study to determine the general occurrence of these contaminants. PVWC continues to participate in and support these types of regulatory and research efforts to maintain a position of leadership in drinking water supply.
1,4-Dioxane	0.185 (0.18 - 0.19)	
Chloromethane	0.014 (ND - 0.55)	
Perfluorobutanesulfonic acid	0.004 (0.0032 - 0.0044)	There are currently no drinking water standards for these contaminants although EPA has established health advisory levels for some of these to provide an estimate of acceptable drinking water levels based on health effects information.
Perfluoroheptanoic acid	0.0038 (0.0032 - 0.0049)	
Perfluorohexanesulfonic acid	0.0049 (0.0038 - 0.0068)	The results observed in 2016 were well below EPA established health advisory levels.
Perfluorohexanoic acid	0.015 (0.011 - 0.017)	
Perfluorononanoic acid	0.0011 (ND - 0.0043)	
Perfluorooctanesulfonic acid (PFOS)	0.010 (0.0077 - 0.015)	Health advisory levels are non-enforceable and non-regulatory and provide technical information to state agencies and other public health officials on health effects, analytical methodologies, and treatment technologies associated with drinking water contamination.
Perfluorooctanoic acid (PFOA)	0.012 (0.0099 - 0.014)	

Source Water Assessments

The New Jersey Department of Environmental Protection (NJDEP) has prepared Source Water Assessment reports and summaries for all public water systems. The Source Water Assessment, and related questions, for the West Caldwell System (PWS ID NJ 0721001), the PVWC system (PWS ID NJ 1605002), as well as the North Jersey District Water Supply Commission (PWS ID NJ 1613001), can be obtained by logging onto NJDEP's source water assessment Web site at www.state.nj.us/dep/swap or by contacting NJDEP's Bureau of Safe Drinking Water at 609-292-5550. If a system is rated highly susceptible for a contamination category, it does not mean a customer is – or will be – consuming contaminated water. The rating reflects the potential for contamination of source water, not the existence of contamination. Public water systems are required to monitor for regulated contaminants and to install treatment if any contaminants are detected at frequencies and concentrations above allowable levels. The source water assessments performed on the intakes for each system lists the following susceptibility ratings as indicated in the tables below. Contaminants that may be present in source water include:

INTAKE SUSCEPTIBILITY RATINGS

INTAKE	Pathogens	Nutrients	Pesticides	Volatile Organic Compounds	Inorganic Contaminants	Radionuclides	Radon	Disinfection Byproduct Precursors
PVWC 4 Surface Water	4 - High	4 - High	1 - Medium 3 - Low	4 - Medium	4 - High	4 - Low	4 - Low	4 - High
NJDWSC 5 Surface Water	5 - High	5 - High	2 - Medium 3 - Low	5 - Medium	5 - High	5 - Low	5 - Low	5 - High

CRYPTOSPORIDIUM

Cryptosporidium is a microbial pathogen found in surface water throughout the United States. Although filtration removes *Cryptosporidium*, the most commonly-used filtration methods cannot guarantee 100 percent removal. Our monitoring indicates the presence of these organisms in our source water. Current test methods do not allow us to determine if the organism are viable or capable of causing disease. Ingestion of *Cryptosporidium* may cause cryptosporidiosis, an abdominal infection. Symptoms of infection include, nausea, diarrhea, and abdominal cramps. Most healthy individuals can overcome the disease within a few weeks. However, immuno-compromised people, infants and small children, and the elderly are at greater risk of developing life-threatening illness. We encourage immuno-compromised individuals to consult their doctor regarding appropriate precautions to take to avoid infection. *Cryptosporidium* must be ingested to cause disease, and it may spread through means other than drinking water.

PVWC and NJDWSC started the second round of source water monitoring in accordance with the requirements of EPA's Long Term2 Enhanced Surface Water Treatment Rule. This monitoring will continue through the spring of 2017. The data collected in 2016 for both water systems is presented in the Source Water Pathogen Monitoring table below.

SOURCE WATER PATHOGEN MONITORING

Contaminant	PVWC Sourcewaters		NJDWSC Sourcewater	Typical Source
	Passaic River	Popmton River		
Cryptosporidium, Oocysts/L	0 - 0.4	0 - 0.857	0 - 0.1	Microbial pathogens found in surface water throughout the United States.
Giardia, Cysts/L	0 - 1.1	0 - 1.143	0 - 0.1	

SECONDARY PARAMETERS - TREATMENT PLANT EFFLUENT

Contaminant	N.J. Recommended Upper Limit (RUL)	PVWC Little Falls WTP PWSID NJ1605002		NJDWSC Wanaque WTP PWSID NJ1613001	
		Range of Results	RUL Achieved	Result	RUL Achieved
ABS/LAS, ppb	500	ND - 129	Yes	ND	Yes
Alkalinity, ppm	NA	50 - 77	NA	44	NA
Aluminum, ppb	200	15 - 35	Yes	45	Yes
Chloride, ppm	250	102 - 146	Yes	77	Yes
Color, CU	10	ND	Yes	2	Yes
Corrosivity	Non-Corrosive	Corrosive	No	Corrosive	No
Hardness (as CaCO ₃), ppm	250	112 - 160	Yes	72	Yes
Hardness (as CaCO ₃), grains/gallon	15	7 - 9	Yes	4	Yes
Iron, ppb	300	ND	Yes	6	Yes
Manganese, ppb	50	2 - 5	Yes	2	Yes
Odor, TON	3	6 - 16	No	ND	Yes
pH (optimum range)	6.5 to 8.5	7.52 - 8.33	Yes	7.98	Yes
Sodium, ppm	50	55 - 130	No*	42	Yes
Sulfate, ppm	250	49 - 90	Yes	10	Yes
Total Dissolved Solids, ppm	500	313 - 492	Yes	186	Yes
Zinc, ppb	5,000	2 - 4	Yes	8	Yes

Key

AL	Action Level
CU	Color Unit
MCL	Maximum Contaminant Level
MCLG	Maximum Contaminant Level Goal
NA	Not Applicable
ND	Not Detected
ppb	Parts Per Billion - The equivalent of 1 second in 32 years
ppm	Parts Per Million - The equivalent of 1 second in 12 days
pCi/L	Picocuries per liter - The equivalent of 1 second in 32 million years
NTU	Nephelometric Turbidity Unit
TON	Threshold Odor Number
TT	Treatment Technique
RAA	Running Annual Average
LRAA	Locational Running Annual Average
RUL	Recommended Upper Limit

*PVWCs FINISHED WATER EXCEEDS SODIUM RUL

PVWCs finished water was above New Jersey's Recommended Upper Limit (RUL) of 50 ppm for sodium in 2016. Possible sources of sodium include natural soil runoff, roadway salt runoff, upstream wastewater treatment plants, and a contribution coming from chemicals used in the water treatment process. For healthy individuals, the sodium intake from water is not important, because a much greater intake of sodium takes place from salt in the diet. However, sodium levels above the recommended upper limit may be a concern to individuals on a sodium-restricted diet. If you have any concerns, please contact your health care provider.

Health Note

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 guidelines on appropriate means to lessen the risk of infections by *Cryptosporidium* and other microbial contaminants are available from the EPA Safe Drinking Water Hotline at (800) 426-4791.

Does West Caldwell Test for Asbestos?

Under a waiver issued by the State (NJDEP), the Township of West Caldwell does not have to monitor for asbestos because the State has determined that West Caldwell's system is not considered susceptible to asbestos contamination. The State has determined that monitoring and testing for asbestos is not required at this time.

A Sure Safe Supply

The Township of West Caldwell bulk purchases our water from the Passaic Valley Water Commission. Passaic Valley Water Commission's (PVWC) Little Falls Water Treatment Plant treats surface water diverted from the Passaic and Pompton rivers, or Point View Reservoir. Treated water is then blended with treated water obtained from the North Jersey District Water Supply Commission's (NJDWSC) Treatment Plant. Water is then pumped through underground pipes to West Caldwell. Emergency interconnections with other water purveyors exist throughout the distribution system. The Township of West Caldwell Water Department is committed to providing to our customers a safe, sure supply of water 24 hours a day, 365 days a year.

DEFINITIONS of TERMS and ACRONYMS

ABS/LAS - Alkylbenzene Sulfonate and Linear Alkylbenzene Sulfonate (surfactants).

Disinfection By-product Precursors - A common source is naturally-occurring organic material in surface water. Disinfection by-products are formed when the disinfectants (usually chlorine) used to kill pathogens react with dissolved organic material (DBP precursors) present in surface water.

Location Running Annual Average (LRAA) - The annual average taken from the present month going back twelve months for a specific location.

MRDL - Maximum Residual Disinfectant Level; the highest level of a disinfectant allowed in drinking water. There is convincing evidence that the addition of a disinfectant is necessary for control of microbial contaminants.

MRDLG - Maximum Residual Disinfectant Level Goal; 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 contamination.

Primary Standards - Federal drinking water regulations for substances that are health-related. Water suppliers must meet all primary drinking water standards.

PWS ID - Public Water System identification.

Radioactive Contaminants/Radionuclides - Radioactive substances that are both naturally occurring and man-made may be present in source water naturally or as a result of oil and gas production and mining activities. Examples include radium, radon and uranium.

Radon - Colorless, odorless, cancer-causing gas that occurs naturally in the environment.

RUL Achieved - A "YES" entry indicates the State-recommended upper limit was not exceeded. A "NO" entry indicates that State-recommended upper limit was exceeded.

Running Annual Average (RAA) - The annual average taken from the present month going back twelve months.

Secondary Standards - Federal drinking water measurements for substances that do not have an impact on health. These reflect aesthetic qualities such as taste, odor, and appearance. Secondary standards are recommendations, not mandates.

Detected Substances

Your water was tested for more than 178 substances. As you can see from our water quality tables on the proceeding page, the amounts we found were less than the amounts allowed by the EPA. Listed below is information that may be of special interest to our customers.

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. West Caldwell 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 is available from the Safe Drinking Water Hotline or at <http://www.epa.gov/safewater/lead>.

What About Bottled Water?

Typically, 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, which may come from sewage treatment plants, septic systems, agricultural livestock operations, and wildlife.
- **Inorganic contaminants**, such as salts and metals, which 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**, which 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, which are byproducts of industrial processes and petroleum production, and can also come from gas stations, urban stormwater runoff, and septic systems.
- **Radioactive contaminants**, which can be naturally occurring or be the result of oil and gas production, and mining activities.

In order to ensure that tap water is safe to drink, the EPA prescribes regulations which limit the amount of certain contaminants in water provided by public water systems. Federal Drug Administration (FDA) regulations establish limits for contaminants in bottled water, which must provide the same protection for public health.

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 EPA Safe Drinking Water Hotline (800) 426-4791.

So, what's the bottom line? If bottled and tap water meet the Federal standards, they are both safe to drink. However, your tap water costs less than one penny per gallon and is substantially less expensive than bottled water. Additionally, tap water is always available in your own home.