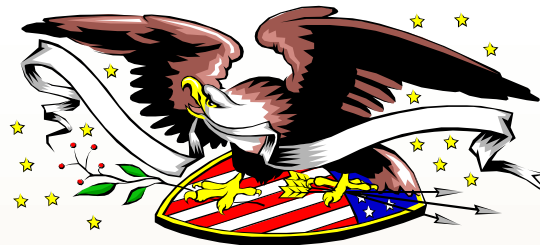




The security of water systems around the country continues to be a concern. The FBI does not consider contamination of water supplies with deadly biological agents a probable or effective threat given dilution and treatment barriers, but cautions that greater threat involves disruption of treatment processes or delivery of service. The Town of Cortlandville has implemented a number of security measures since the tragedy of 9/11. Security lighting, alarm systems and more frequent inspections of our facilities are just a few of the measures that have been taken. Letters have also been sent to local law enforcement requesting that patrols be increased around our facilities whenever possible. If you live by a water tank or pump station and notice suspicious activity occurring around these facilities, please report it to the authorities immediately. The Cortlandville Water Department would like to reassure everyone that through the efforts of the Cortland County Health Department, local Law Enforcement, the FBI and the watchful eye of the public, everything possible is being done to protect our water supply.

Frequently Requested Information from the Town of Cortlandville.

7.4 pH (mg/l)
211 Hardness, average (mg/l).
42-48 Water temperature range from tap (deg F).
Chlorine: This is the only thing added to the water supply and its purpose is for disinfection.
0.5 Chlorine residual level average (mg/l).



TOWN OF CORTLANDVILLE WATER DEPARTMENT

2023

Annual Water Quality Report For The Year 2022

3577 Terrace Road
Office: 607-756-9637
Fax: 607-758-9637
www.cortlandville.org

Emergency (after hours) 607-756-9637

Public Water Supply Number
NY1101755

TOWN BOARD MEMBERS

Tom Williams, **Supervisor**
Councilmen
Jay Cobb
Jeff Guido
Greg Leach
David Donlick



Town Attorney
John DeVecchio

Town Clerk
Kristin Rocco- Petrella

Report Prepared By:
Brian R. Congdon

*Serving Cortlandville for
Sixty-Four Years
1959-2023*

Town of Cortlandville Water Facts and Figures

The Cortlandville Water System serves approximately 4,000 people through 1,400 service connections. The total water produced in 2022 was **252,950,309** gallons. The daily average of water treated and pumped into the distribution system was **693,014** gallons per day. The amount of water delivered to customers in 2022 was **203,505,432** gallons (This figure also includes pool fills and system flushing activities). This leaves an unaccounted for total of **49,444,877** gallons of water or **19.54 percent** of the total water pumped.

Our water source is from two ground water wells at separate locations. At one location, water is drawn from a 92' deep drilled well utilizing a 100H.P. motor. This well will produce approximately 1,100 gallons per minute. The second well location draws groundwater from a drilled well that is 62' deep and a 60H.P. motor powers a pump that yields approximately 650 gallons per minute. The water is treated with 3 lbs. of gaseous chlorine for every 750,000 gallons produced prior to distribution.

During 2022, our system was in compliance with applicable State drinking water operating, monitoring and reporting requirements. We also did not experience any restrictions or violations of our water system.

Our water comes from the Otter-Creek Aquifer. An aquifer is a saturated bed formation or group of formations, which yields water in sufficient quantity to be economically useful. To be an aquifer a geologic formation must contain pores or open spaces that are filled with water. These spaces must be large enough to transmit water toward wells at a useful rate. Cortlandville has a large, yet vulnerable, water supply. The Otter/Dry Creek Aquifer has been designated as a "Sole Source Aquifer" serving both the City of Cortland and the Town of Cortlandville.

Water/Sewer Rates

Water Rates

0 to 6,000 gal.	\$24.05 Minimum
6,001 & Up	\$4.11 per 1,000 gal
Industrial	\$3.35 per 1,000 gal

Sewer Rates

0 to 6,000 gal.	\$28.00 Minimum
6,001 & Up	\$5.60 per 1,000 gal.
Industrial	\$2.90 per 1,000 gal.

** Based on water consumption.

The Cortlandville Town Board meets twice a month on the first Wednesday at 5:00pm and the third Wednesday at 5:00pm at 3577 Terrace Road, Town Hall. Please call ahead to confirm.

The Cortlandville Water Department works together with the Cortland County Health Department in providing the safest water possible. For more information on water quality and the effects of contaminants and microorganisms, visit your local Health Department at 60 Central Avenue, Cortland, New York 13045 or call 607-753-5035.



*If you see
suspicious,
activity,
call 911.*

If you have received this report as manager of a business or multi-family dwelling, please post it in a prominent place so that the information will be available to employees' and/ or residents. If you would like additional copies of the report, have comments, or would like to offer suggestion for future reports, please contact the Cortlandville Water Department at 607-756-9637.

DRINKING WATER WORD SEARCH

CLEAN PURE WATER DISINFECTION COLD POTABLE WATER
FAUCET SAMPLING CHLORINE WELL AQUIFER WATER SUPPLY
QUALITY SPRING TAP REFRESHING GROUNDWATER SPRING

P	O	T	A	D	A	W	B	C	Y	L	P	P	U	S	R	E	T	A	W
A	W	E	O	D	I	S	C	I	N	B	O	B	U	L	A	T	E	D	K
Q	Y	O	R	L	W	K	N	O	I	T	C	E	F	N	I	S	I	D	G
Z	R	I	B	O	T	S	G	Y	A	D	I	E	R	F	P	D	H	L	R
P	W	A	P	C	L	E	A	N	F	J	B	G	R	A	R	T	U	V	O
D	A	J	O	B	W	F	D	M	N	Z	Q	U	A	U	N	E	W	I	U
H	T	L	N	P	A	Z	Y	O	P	D	F	G	X	C	P	Z	T	I	N
R	E	F	R	E	S	H	I	N	G	L	L	E	W	E	L	A	B	A	D
G	E	B	B	Y	T	I	L	A	U	Q	I	O	R	T	L	X	O	V	W
Z	V	F	F	H	A	P	H	O	L	L	O	N	M	J	H	G	Z	J	A
C	P	D	I	V	P	V	W	W	E	L	Y	Y	G	N	I	R	P	S	T
I	N	A	L	U	C	H	L	O	R	I	N	E	H	Y	F	D	O	P	E
R	B	M	K	J	Q	U	I	N	T	I	V	F	X	P	Y	O	N	R	R
P	G	J	P	O	T	A	B	L	E	W	A	T	E	R	Z	J	G	I	S

Our Mission

Water is essential to all and the public water supply should be safe for all to drink and because individuals vary in their susceptibility and responses to substances as well as in the amount of water they consume. It is our belief that the public water supply should never be used to deliver any product, substance, device, element, medicine or agent with the intent or for the purpose of affecting the physical or mental functions of the body of any person or persons consuming such water. We, the employees of the Town of Cortlandville Water Department, are dedicated to delivering to our customers, in a professional and courteous manner, a quality product at sufficient pressure, in sufficient volume, at a reasonable price and containing only those chemicals necessary to make the water safe. Customer safety and satisfaction is our number one concern.

As the State regulations require, we routinely test your drinking water for numerous contaminants. These contaminants include total coliform, turbidity, inorganic compounds, nitrate, nitrite, lead and copper, volatile organic compounds, disinfection byproducts and synthetic organic compounds which include: perfluorooctanesulfonic acids.

TERMS YOU NEED TO KNOW

Maximum Contaminant Level (MCL): The highest level of contaminant that is allowable in drinking water. MCLs are set as close to the MCLGs as feasible.

Maximum Contaminant Level Goal (MCLG): The level of a contaminant in drinking water below, which there is a known or expected health risk. MCLGs allow for a margin of safety.

Non-Detect (ND): Laboratory analysis indicates that the constituent is not present.

Milligrams Per Liter (mg/l): Corresponds to one part of liquid to one million parts of liquid (parts per million-ppm). One part per million (1mg/l) is the same as: One cent in \$10,000, one bad apple in 2,000 barrels, one minute in two years or one inch in 16 miles.

Micrograms Per Liter (ug/l): Corresponds to one part of liquid to one billion parts of liquid (parts per billion-ppb). One part per billion is the same as: One cent in \$10 million, one bad apple in 2 million barrels, one second in 32 years or one inch in 16,000 miles.

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

Picocuries per liter (pCi/l): The measure of radioactivity in 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 no known or expected risk to health. MRDLGs do not reflect the benefits of the use of disinfectants to control microbial contamination.

Lead & Copper Sampling Is Performed Every 3 Years.

(Based on 20 samples)

Lead: Sampling during 2022 revealed a range of lead detection from ND to a high of 3.6 ug/l. We had no samples at the 90th percentile above the AL (action level) of 15 ug/l. The 90th percentile sample was 2.2 ug/l. No violation.

Copper: Sampling during 2022 revealed a range of copper detection from a low of 21.7 ug/l to a high of 113 ug/l. We had no samples above the AL (action level) of 1,300 ug/l and the 90th percentile was 96 ug/l. No violation.

The 90th percentile is equal to or greater than 90% of the values detected at your water system.

Lead and Copper samples are scheduled to be done again in 2025.

Radon

Radon is a naturally occurring radioactive gas found in soil and outdoor air that may also be found in drinking water and indoor air. Some people exposed to elevated radon levels over many years in drinking water may have an increased risk of getting cancer. The main risk is lung cancer from radon entering indoor air from soil and under homes.

In 2011 we collected two representative water samples (one from each well house) that were analyzed for radon. The average of the two samples was 561.0 picocuries/liter (pCi/l).

For additional information call your state radon program (1-800-458-1158 or call EPA's Radon Hotline (1-800-SOS-Radon) or the Cortland County Department of Environmental Health at 753-5035.

SYSTEM IMPROVEMENTS



As the Town continues to grow, we are always looking towards the future and the need to increase our supply of water so that we can comfortably meet the demands of our resident and business users.

In 2022 the Town had test wells drilled for a possible New Groundwater Supply Well. This was done to see if we will have the volume of water needed to use this location for a new well site. Hopefully in 2023 we can start the next phase of this project.

We also are looking a sewer line extension project for Cosmos Hill Rd, Blue Creek Rd and Alexandria Dr. This will be tied into existing sewer on Meadow Ln.

Well Head Protection

In 2022 The Town of Cortlandville purchased one hundred acres of land next to our Lime hollow well site to further protect the Town's water supply. This land Acquisition will safeguard any future development that might contaminate the wells that supply water to the residents of the Town of Cortlandville. With the Grants available this cost won't be any bourdon to the residents of the Town.



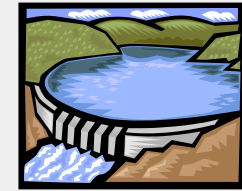
Educational Information

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 EPA's Safe Drinking Water Hotline at (1-800-426-4791).

Some people may be more vulnerable to disease causing microorganisms or pathogens in drinking water than the general population. Immunocompromised persons with cancer undergoing chemotherapy, persons who have undergone transplants, people with HIV/AIDS or other immune system disorders, some elderly and infants can be particularly at risk for infection. These people should seek advice from their health care provider about their drinking water. EPA/CDC guidelines on appropriate means to lessen the risk of infection by Cryptosporidium, Giardia and other microbial pathogens are available from the Safe Drinking Water Hotline at (1-800-426-4791).

The sources of drinking water (both tap 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 animal or from human activities. Contaminants; pesticides and herbicides; organic chemical contaminant; and radioactive contaminants. In order to ensure that tap water is safe to drink, the State and the EPA prescribe regulations which limit the amount of certain contaminants in water provided by public water systems. The regulations establish limits for contaminants in bottled water, which must provide the same protection for public health.

Source Water Assessment



Source Water Assessment Summary.

The NYS DOH has completed a source water assessment for our system, which rates the susceptibility of our wells to potential contamination. The rating does not mean that the water delivered to consumers is or will become contaminated. As mentioned previously, our water is derived from two wells. The source water assessment has rated these wells as having a medium-high to high susceptibility to microbial, nitrate, industrial solvent, petroleum product, metal, pesticide/herbicide, cation/anion other industrial contaminants. These ratings are due primarily to the highly permeable aquifer from which the water source is derived as well as due to the close proximity to the wells and assessment area of specific land types and activities.

Ongoing Source Water Protection.

The Town's wells are located in the Cortland-Homer-Preble Sole Source Aquifer System. This means that Cortlandville relies completely on this aquifer for drinking water and has no other source for its water supply. The Town of Cortlandville has an aquifer protection district, which includes the Town's wells. This district requires permitting of most new, non-residential developments and provides land use restrictions for these developments within two aquifer zones. The Town is also in the process of implementing a wellhead protection district to provide greater controls within the contribution areas of the well sources. The Town has sought public input for this district.

A copy of the Source Water Assessment or Aquifer Protection District specifics can be obtained by contacting the Town or the Cortland County Health Department.

As State regulations require, Cortlandville Water Department routinely tests your drinking water for numerous contaminants. Those contaminants detected are listed below. (A) Well #1 (B)Well #2									
Contaminant	Units	MCLG	Regulatory Limit	Well Site	Violation Yes / No	Sample Date	Level Detected	Source In Drinking Water	Health Effects Language
Inorganics									
Antimony	ug/l	6	6	B	No	3/4/2020	0.7	fire retardants; ceramics; electronics; solder	Some people w ho drink w ater containing antimony well in excess of the MCL over many years could experience increases in blood cholesterol and decreases in blood sugar.
Barium	ug/l	2,000	2,000	A	No	3/3/2020	44.8	Discharge of drilling waste; Discharge from metal refineries; Erosion of natural deposits.	Some people w ho drink w ater containing Barium in excess of the MCL over many years could experience an increase in their blood pressure.
				B	No	3/4/2020	45.6		
Chloride	mg/l	N/A	250	A	No	3/8/2022	45.7	Naturally occurring or indicative of road salt contamination.	No health effects. The MCL for chloride is the level above w hich the taste of w ater may become objectionable. In addition, to the adverse taste effects, high chloride concentration levels in the w ater contribute to the deterioration of domestic plumbing and w ater heaters. Elevated chloride concentrations may also be associated w ith the presence of sodium in drinking w ater.
				B	No	3/9/2022	86.7		
Nitrate	mg/l	10	10	A	No	3/8/2022	2.19	Runoff from fertilizer use; Leaching from septic tanks, sew age; Erosion of natural deposits.	Infants below the age of six months w ho drink w ater containing nitrate in excess of the MCL could become seriously ill and, if untreated, may die. Symptoms include shortness of breath and blue-baby syndrome.
				B	No	3/9/2022	1.83		
Sulfate	mg/l	N/A	250	A	No	Avg. 2020	17.8	Naturally occurring.	High concentrations of sulfate in drinking w ater have three effects: (1) w ater containing appreciable amounts of sulfate tends to form hard scales in boilers and heat exchangers; (2) sulfates cause taste effects; and (3) sulfates can cause laxative effects w ith excessive intake. The laxative effect of sulfates is usually noted in transient users of a w ater supply because people w ho are accustomed to high sulfate levels in drinking w ater have no adverse response. Diarrhea can be induced at sulfate levels greater than 500 mg/l but typically near 750 mg/l.
						Range	17.4-18.2		
Sodium	mg/l	N/A	N/A	B	No	3/4/2020	10.1		
				A	No	3/8/2022	18.6	Naturally occurring; Road salt; Water softeners; Animal waste.	Water containing more than 20 mg/l of sodium should not be used for drinking by people on severely restricted sodium diets. Water containing more than 270 mg/l of sodium should not be used for drinking by people on moderately restricted sodium diets.
				B	No	Avg. 2022	66.15		
						Range	63.0- 68.0		
Zinc	ug/l	N/A	5000	A	No	5/19/2020	6.5	Naturally occurring; Mining waste.	Zinc has no health effects unless detected in very high concentrations. The presence of zinc may result in an undesirable taste in drinking w ater.
				B	No	3/4/2020	10.3		
Radiologicals									
Gross Beta	pCi/L	0	50	A	No	3/6/2019	0.341	Decay of natural deposits and man-made emissions..	Certain materials are radioactive and may emit forms of radiation know n as photons and beta radiation. Some people w ho drink w ater containing beta and photon emitters in excess of the MCL over many years may have an increased risk of getting cancer.The State considers 50 pCi/l to be the level of concern for beta particles.
				B	No	4/10/2019	0.759		
Gross Alpha	pCi/L	0	15	A	No	3/6/2019	0.797		Certain minerals are radioactive and may emit a form of radiation know n as alpha radiation. Some people w ho drink w ater containing alpha emitters in excess of the MCL over many years may have an increased risk of getting cancer.
				B	No	4/10/2019	0.728		
Combinded Radium 226- 228	pCi/L	0	5	A	No	3/6/2019	0.701	Erosion of natural deposits.	Some people w ho drink w ater containing radium 226 or 228 in excess of the MCL over many years may have an increased risk of getting cancer.
				B	No	4/10/2019	0.94		
Disinfection Byproducts (Samples taken from the system, farthest from the chlorine injection point.)									
Total Trihalomethanes (TTHMs – chloroform, bromodichloromethane, dibromochloromethane, and bromoform)	ug/l	N/A	80	Fisher Ave	No	7/6/2022	17.12	By-product of drinking w ater chlorination needed to kill harmful organisms. TTHMs are formed w hen source w ater contains large amounts of organic matter.	Some people w ho drink w ater containing trihalomethanes in excess of the MCL over many years may experience problems w ith their liver, kidneys, or central nervous systems, and may have an increased risk of getting cancer.
				Walden Oaks	No	7/6/2022	9.75		
Haloacetic Acids (mono-, di-, and trichloroacetic acid, and mono- and di-bromoacetic acid)	ug/l	N/A	60	Fisher Ave	No	7/6/2022	2.34	By-product of drinking w ater disinfection needed to kill harmful organisms.	Some people w ho drink w ater containing haloacetic acids in excess of the MCL over many years may have an increased risk of getting cancer
				Walden Oaks	No	7/6/2022	2.65		
5 Microbiological samples were taken each month in 2022					For terms relating to this contaminant table, please refer to the section of this report titled, " TERMS YOU NEED TO KNOW".				