

***Annual Drinking Water Quality Report for 2021***  
***Candor Landing***  
***370 Route 96, Owego, NY 13827***  
***Public Water Supply ID#NY5301424***

## **INTRODUCTION**

To comply with State regulations, **Candor Landing**, will be annually issuing a report describing the quality of your drinking water. The purpose of this report is to raise your understanding of drinking water and awareness of the need to protect our drinking water sources. Last year, your tap water met all State drinking water health standards. We are proud to report that our system did not violate a maximum contaminant level or any other water quality standard. This report provides an overview of last year's water quality. Included are details about where your water comes from, what it contains, and how it compares to State standards. If you have any questions about this report or concerning your drinking water, please contact Jon Morris, water operator @ 315-677-5444.

## **WHERE DOES OUR WATER COME FROM?**

In general, 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 activities. Contaminants that may be present in source water include: microbial contaminants; inorganic contaminants; pesticides and herbicides; organic chemical contaminants; 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 State Health Department's and the FDA's regulations establish limits for contaminants in bottled water which must provide the same protection for public health.

Our water system serves 44 sites and 75 people. Our water source is groundwater drawn from two drilled wells which are located throughout the park. The water is disinfected with liquid chlorine and Ultra violet prior to distribution.

## **ARE THERE CONTAMINANTS IN OUR DRINKING WATER?**

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, total trihalomethanes, haloacetic acids, radiological and synthetic organic compounds. The table presented below depicts which compounds were detected in your drinking water. The State allows us to test for some contaminants less than once per year because the concentrations of these contaminants do not change frequently. Some of our data, though representative, are more than one year old.

It should be noted that all drinking water, including bottled drinking 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 EPA's Safe Drinking Water Hotline (800-426-4791) or the Tioga County Health Department at 607-687-8437.

**Table of Detected Contaminants**

Contaminant	Violation Yes/No	Sample Location	Date of Sample	Level Detected (Range)	Unit Measure- ment	MCL G	Regulatory Limit (MCL or AL)	Likely Source of Contamination
Total Coliform bacteria	No	Well 2/3	Jan-Dec 2021	Absent	In 100 mL			
Free Residual Chlorine	No	Well 2/ 3	Jan-Dec 2021	.05	Mg/L	4	.2	
Copper (1)	No	Lot 1, 24, 35, 36	9/3/15	.0043 - .024	mg/L	1.3	AL=1.3	Corrosion of household plumbing; Erosion of natural deposits; Leaching from wood preservatives
Lead (2)	No	Lot 1, 24, 35, 36	9/3/15	>.001- .0043	ug/L	0	AL=15	Corrosion of household plumbing; Erosion of natural deposits
Nitrate Nitrite	No	Well 3	12/6/21	<.01 1.5	Mg/L	10	10	Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits.
THMs & HAAs	No	Lot 1	8/27/16	See below	Ug/L		80	Disinfection by products were within EPA guidelines with no detections with the exception for Dibromacetic Acid that had a reading of .51
Barium	No	Well 2 Well 3	6/12/12 6/5/12	.058 .075	mg/L	2.0	2.0	Erosion of natural elements; Discharge from metal refineries and drilling waste
Fluoride	No	Well 2 Well 3	11/5/18	.2	mg/L	N/A	2.2	Erosion of natural deposits; water additive which promotes strong teeth; discharge from fertilizer and aluminum factories
Sulfate	No	Well 2 Well 3	6/12/12 6/5/12	12.3 11.4	mg/L	NA	250	Naturally occurring
Sodium (3)	No	Well 2 Well 3	1/7/13 1/7/13	7.5 12	mg/L	NA	See Health effects	See Health effects
Total Trihalo - methanes (4)	No	Lot 2	8/23/18	2.46	ug/L	NA	80	By-Product of drinking water chlorination
Total Haloacetic acids (5)	No	Lot 2	8/23/18	.72	ug/L	NA	60	By-Product of drinking water chlorination
Bromodichlorome thane	No	Lot 23	3/8/21	1.6	Ug/L	.5		
Chloroform	No	Lot 23	3/8/21	.9	Ug/L	.5		
Dibromothlorome thene	No	Lot 23	3/8/21	2.1	Ug/L	.5		

Table of Detected Contaminants								
Contaminant	Violation Yes/No	Sample Location	Date of Sample	Level Detected (Range)	Unit Measurement	MCL G	Regulatory Limit (MCL or AL)	Likely Source of Contamination
Bromoform	No	Lot 23	3/8/21	44.9	Ug/L			
Chromium	No	Well 1 Well 2	Jan 2013	.0015 .0013	Mg/L	.001		
Barium	No	Lot 23	3/8/21	44.9	Ug/L			
Nickel	No	Lot 23	3/8/21	37.1	Ug/L			
PFOA, PFOS 1,4-Dioxane (6)	No	Well 2 Well 3	3/17/21	Within Limits				

**Notes:**

1 - The **copper** level presented represents the 90<sup>th</sup> percentile of the five- (5) sites tested. A percentile is a value on a scale of 100 that indicates the percent of a distribution that is equal to or below it. The 90<sup>th</sup> percentile is equal to or greater than 90% of the copper values detected at your water system. In this case, Five (5) samples were collected at your water system and the 90<sup>th</sup> percentile value was the average of the highest two values (0.0155 mg/L). The action level for copper was not exceeded at any of the sites tested.

2 - The **lead** level (3.25 ug/L) presented represents the 90<sup>th</sup> percentile of the five- (5) samples collected. The action level was not exceeded in any of the sites tested.

3 - 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.

4 - This level represents the total levels of the following contaminants; chloroform, bromodichloromethane, dibromochloromethane, bromoform

5- This level represents the total levels of the following contaminants; Dibromoacetic acid, Dichloroacetic acid, Monobromoacetic acid, and Trichloroacetic acid, chloroform, bromodichloromethane, dibromochloromethane, bromoform.

6- Perfluorooctanoic acid(PFOA, Perfluorooctansulfonic acid, and 1,4 Dioxane(1,4-D) PFOA, PFOS, and 1,4-D are relatively ubiquitous in the environment due to their historical widespread use persistence. PFOA and PFOS have been used in a variety of consumer and industrial products as surface coatings and/ or protectants because of their nonstick properties. Research further indicates that these compounds bioaccumulate in various organisms, including fish and humans. 1,-D has been largely used as a solvent stabilizer for chemical processing but can also be found as a purifying agent in the manufacturing of pharmaceuticals as well as a contaminant in ethoxylated surfactants commonly used in consumer cosmetics, detergents, and shampoos. Research indicates that this chemical does not bioaccumulate in the food chain. For more information on PFOA, PFOS, and 1,4-D go to the [www.dec.ny.gov/dos/water](http://www.dec.ny.gov/dos/water) We are happy to inform you that our testing shows we have no violations and did not exceed the MCL set forth by the Health Department.

## Definitions:

**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.

**Maximum Contaminant Level (MCL)**: The highest level of a contaminant that is allowed 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 no known or expected risk to health. MCLGs allow for a margin of safety.

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

**Milligrams per liter (mg/L)**: Corresponds to one part of liquid in one million parts of liquid (parts per million - ppm).

**Micrograms per liter (ug/L)**: Corresponds to one part of liquid in one billion parts of liquid (parts per billion - ppb).

**Picocuries per liter (pCi/l)**: A measure of radioactivity in water.

## WHAT DOES THIS INFORMATION MEAN?

As you can see by the table, our system had no violations. We have learned through our testing that some contaminants have been detected; however, these contaminants were detected below the level allowed by the State.

## DO I NEED TO TAKE SPECIAL PRECAUTIONS?

Although our drinking water met or exceeded state and federal regulations, some people may be more vulnerable to disease causing microorganisms or pathogens 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 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 (800-426-4791).

## WHY SAVE WATER AND HOW TO AVOID WASTING IT?

Although our system has an adequate amount of water to meet present and future demands, there are a number of reasons why it is important to conserve water:

- ◆ Saving water saves energy and some of the costs associated with both of these necessities of life;
- ◆ Saving water reduces the cost of energy required to pump water and the need to construct costly new wells, pumping systems and water towers; and
- ◆ Saving water lessens the strain on the water system during a dry spell or drought, helping to avoid severe water use restrictions so that essential firefighting needs are met.

You can play a role in conserving water by becoming conscious of the amount of water your household is using, and by looking for ways to use less whenever you can. It is not hard to conserve water. Conservation tips include:

- ◆ Automatic dishwashers use 15 gallons for every cycle, regardless of how many dishes are loaded. So get a run for your money and load it to capacity.
- ◆ Turn off the tap when brushing your teeth.
- ◆ Check every faucet in your home for leaks. Just a slow drip can waste 15 to 20 gallons a day. Fix it and you can save almost 6,000 gallons per year.
- ◆ Check your toilets for leaks by putting a few drops of food coloring in the tank, watch for a few minutes to see if the color shows up in the bowl. It is not uncommon to lose up to 100 gallons a day from one of these otherwise invisible toilet leaks. Fix it and you save more than 30,000 gallons a year.

## CLOSING

Thank you for allowing us to continue to provide your family with quality drinking water this year.