

**2022
Santa Claus Utilities
Water Quality
Report**



**Mission Statement
“Citizen Service”**

**To provide quality service on a consistent basis
with economy and efficiency in mind.**

TOWN OF SANTA CLAUS WATER QUALITY REPORT 2022

The Town of Santa Claus annual water quality report (CCR) will be available online on or before July 1, 2022 at www.townofsantaclaus.com. If you would prefer a paper copy of the 2022 Annual Water Quality Report (CCR) mailed to your home, please call (812)544-3329.

REPORT OVERVIEW

It is the intent of this report to give water users important facts about the water we use daily. To ensure the safety of our water a partial listing of, the town's testing requirements are as follows: total chlorine, total coliform bacteria, lead and copper and asbestos fibers. Chlorine residual tests are run seven days per week. Total coliform tests are run four times per month to ensure that the disinfection (chlorinating) process is working. Lead and copper tests are run every three years to see if these two elements are showing up in our water. Another required test is asbestos fibers. The town utilizes asbestos cement pipe in a portion of the system, so we monitor the corrosiveness of the water to ensure the fibers are staying in place. Do not be alarmed when you hear that there is asbestos concrete pipe in the water system, it is considered safe and used worldwide.

Now that the town is producing water, there are and will be new testing requirements. Results of current testing are included in this report. Future testing requirements and results will also be included in this report.

During the last testing year, the town had no violations. Other constituents of our water are tested daily at our water treatment plant, as well as; at Patoka Lake Treatment Plant. Those results are also included in this report.

HEALTH INFORMATION

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. Environmental Protection Agency (EPA) and Center for Disease Control (CDC) guidelines on appropriate means to lessen the risk from infection by *Cryptosporidium* and other microbial contaminants are available from the Safe Drinking Water Hotline at 800-426-4791.

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 storm 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 storm water runoff, and residential uses.
- Organic chemical contaminants, including synthetic and volatile organic chemicals, which are by-products of industrial processes and petroleum production, and can also, come from gas stations, urban storm-water 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 that limit the number of certain contaminants in water provided by public water systems. Food and 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 Environmental Protection Agency's Safe Drinking Water Hotline at 800-426-4791.

CHLORAMINE/FLUORIDE ADDITION

Patoka Lake Regional Water District, and the town utilize chloramines to disinfect your drinking water. For all normal users, chloraminated water is the same as water disinfected with chlorine. However, kidney dialysis patients should consult their doctor and fish owners should call your pet store for more information. As recommended by ADA and AWWA, Patoka Lake District, participates in the State Dental Fluoridation program and adds fluoride to the treated water.

You as an end consumer of water can help to protect the sources of drinking water by increasing and promoting efforts to recycle materials and properly dispose of chemicals, used oils and petroleum products, batteries, and other household refuse.

Statement Addressing Lead in Drinking Water:

“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. Santa Claus Utilities 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>.” Lead and copper testing is done every 3 years in accordance with required regulations.

PATOKA LAKE REGIONAL WATER DISTRICT DATA 2021

INORGANIC CONTAMINANTS (2021)

	<u>MCL</u>	<u>D.L.</u>	<u>RESULT</u>
	<u>MG/L</u>	<u>MGL</u>	<u>MG/L</u>
ANTIMONY	0.006	0.001	BDL
ARSENIC	0.01	0.001	BDL
BARIUM	2	0 .002	.026
BERYLLIUM	0.004	0.0003	BDL
CADMIUM	0.005	0.001	BDL
CHROMIUM	0.1	0.0009	BDL
CYANIDE, (FREE)	0.2	0.02	BDL
FLUORIDE	4	0.1	0.6
MERCURY	0.002	0.0001	BDL
NICKEL	0.1	0.001	BDL
NITRATE	10	0.1	BDL
SELENIUM	0.05	0.002	BDL
SODIUM	NO MCL	0.1	2.9
THALLIUM	0.002	0.0003	BDL

RADIOACTIVE CONTAMINANTS (2020)

	<u>MCL</u>	<u>RESULT</u>
RADIUM – 228 2020		.17+.41 pCi/L
GROSS ALPHA 2020	15	1.7+.9 pCi/L

SYNTHETIC ORGANIC CONTAMINANTS (2021)

	<u>MCL</u>	<u>D.L.</u>	<u>RESULT</u>
	<u>ug/L</u>	<u>ug/L</u>	<u>ug/L</u>
ALACHLOR (LASSO) 2021	2	0.1	BDL
ATRAZINE 2021	3	0.1	BDL
BENZO(A)PYRENE 2021	0.2	0.02	BDL
CARBOFURAN 2021	40	0.9	BDL
CHLORDANE (ALPHA & GAMMA) 2021	2	0.1	BDL
2.4 – D 2021	70	0.1	BDL
DALAPON 2021	200	1	BDL
DBCP 2021	0.2	0.01	BDL
DINOSEB 2021	7	0.1	BDL
2.3.7.8 -M TCDD (DIOXIN) 2021	30 ug/L	5.0 ug/L	BDL
DIQUAT 2021	20	0.4	BDL
DI(2-ETHYLHEXYL) ADIPATE 2021	400	0.6	BDL
DI(2-ETHYLHEXYL)PHTHALATE 2021	6	0.6	BDL
ENDOTHALL 2021	100	0.9	BDL
ENDRIN 2021	2	0.01	BDL
ETHYLENE DIBROMIDE(EDB) 2021	50ug/L	10ug/L	BDL
GLYPHOSATE(ROUND UP) 2019	700	6	BDL
HEPTACHLOR 2021	0.4	0.04	BDL
HEPTACHLOR EPOXIDE 2021	0.2	0.02	BDL
HEXACHLOROBENZENE 2021	1	0.1	BDL
HEXACHLOROCYCLOPENTADIENE 2021	50	0.1	BDL
GAMMA – BHG LINDANE 2021	0.2	0.02	BDL
METHOXYCHLOR 2021	40	0.1	BDL
OXAMY(VYDATE) 2021	200	1	BDL
PENTACHLORPHENOL 2021	1	0.04	BDL
PICLORAM (TORDON) 2021	500	0.1	BDL
PCBS 2019	0.5	0.5	BDL
SIMAZINE 2021	4	0.07	BDL
2.4.5 – TP(SILVER) 2021	50	0.1	BDL
TOXAPHENE 2021	3	1	BDL
TOTAL ORGANIC CARBON (TOC)	<u>MCL</u>		
	25% RANGE	27.9% - 40.5%	
PERCENT REMOVAL TOC RUNNING	AVERAGE<25% AVERAGE	34%	

DEFINITIONS

“MCL” MEANS MAXIMUM CONTAMINANT LEVEL
 “BDL” MEANS BELOW DETECTABLE LIMIT
 “pCi/L” MEANS PICO CURIES PER LITER
 “D.L.” MEANS DETECTABLE LIMIT
 “mg/L” MEANS PART PER MILLION
 OR MILLIGRAMS PER LITER
 “UG/L” MEANS PART PER BILLION
 OR MICROGRAMS PER LITER
 “U.C.” MEANS UREGULATED CONTAMINATES

VIOLATILE ORGANIC CONTAMINANTS (2018)

	<u>MCL</u>	<u>D.L.</u>	<u>RESULT</u>
	<u>ug/L</u>	<u>ug/L</u>	
BENZENE	5	0.5	BDL
CARBON TETRACHLORIDE	5	0.5	BDL
CHLOROBENZENE	100	0.5	BDL
1.2- DICHLOROBENZENE	600	0.5	BDL
1.4 – DICHLOROBENZENE	75	0.5	BDL
1.2 – DICHLOROETHANE	5	0.5	BDL
1.1 – DICHLOROETHYLENE	7	0.5	BDL
1.2 – DICHLOROETHYLENE, CIS	70	0.5	BDL
1.2 – DISCHLOROETHYLENE, TRANS	100	0.5	BDL
DICHLOROMETHANE	5	0.5	BDL
1.2 – DICHLOROPROPANE	5	0.5	BDL
ETHYLBENZENE	700	0.5	BDL
STYRENE	100	0.5	BDL
TETRACHLOROETHYLENE	5	0.5	BDL
TOLUENE	1000	0.5	BDL
1.2.4 – TRICHLOROBENZENE	70	0.5	BDL
1.1.1 – TRICHLOROETHANE	200	0.5	BDL
1.1.2 – TRICHLOROETHANE	5	0.5	BDL
TRICHLOROETHYLENE	5	0.5	BDL
VINYL CHLORIDE	2	0.5	BDL
TOTAL XYLENES	10000	0.5	BDL
METHY-TERT-BUTYL ETHER	NO MCL	0.5	BDL
TOTAL TRIHALOMETHANES(4)	80	0.5	41.7
BROMODICHLOROMETHANE		0.5	4.9
BROMOFORM		0.5	BDL
CHLORODIBROMOMETHANE		0.5	BDL
CHLOROFORM		0.5	36.7
HALOACTIC ACIDS 5 (4)		<u>MCL</u>	<u>RESULT</u>
		60	34.9 avg
	2021 RANGE	25	TO 45
TOTAL TRIHALOMETHANES (4)		80	41.7 AVG
	2021 RANGE	20.4	TO 60.9
LEAD 90 TH PERCENTILE (2020)		<u>MCL</u>	<u>RESULT</u>
		15 ug/L	3.7 ug/L
COPPER 90 TH PERCENTILE (2020)		1.3 mg/L	0.17 mg/L

SANTA CLAUS WATER UTILITY WATER QUALITY DATA FOR 2021

INORGANIC CONTAMINANTS (2019)

	<u>MCL</u>	<u>D.L.</u>	<u>RESULT</u>
	<u>MG/L</u>	<u>MGL</u>	<u>MG/L</u>
ANTIMONY	0.006	0.001	BDL
ARSENIC	0.001	0.0002	BDL
BARIUM	2	0 .002	.096
BERYLLIUM	0.004	0.0005	BDL
CADMIUM	0.005	0.0001	BDL
CHROMIUM	0.1	0.0003	BDL
CYANIDE, (FREE)	0.2	0.01	BDL
FLUORIDE (NATURAL)	4	0.1	0.2
MERCURY	0.002	0.0002	BDL
NICKEL	0.1	0.0002	BDL
SELENIUM	0.05	0.0009	BDL
SODIUM	U.C.	0.5	43.7
THALLIUM	0.002	0.0005	BDL

RADIOACTIVE CONTAMINANTS (2019)

	<u>MCL</u>	<u>RESULT</u>	<u>RESULT</u>
GROSS BETA	50	5.7	pCi/L
GROSS ALPHA	15	BDL	pCi/L
URANIUM	0.03	0.0006	Mg/L

SYNTHETIC ORGANIC CONTAMINANTS (2021)

	<u>MCL</u>	<u>D.L.</u>	<u>RESULT</u>
	<u>ug/L</u>	<u>ug/L</u>	<u>ug/L</u>
ALACHLOR (LASSO)	2	0.2	BDL
ATRAZINE	3	0.1	BDL
BENZO(A)PYRENE	0.2	0.02	BDL
CARBOFURAN	40	0.9	BDL
CHLORDANE (ALPHA & GAMMA)	2	0.05	BDL
2,4 - D	70	0.15	BDL
DALAPON	200	1	BDL
DBCP	0.2	0.01	BDL
DINOSEB	7	0.3	BDL
2,3,7,8 -M TCDD (DIOXIN)	30		BDL
DIQUAT	20	0.66	BDL
DI(2-ETHYLHEXYL) ADIPATE	400	0.5	BDL
DI(2-ETHYLHEXYL)PHTHALATE	6	1	BDL
ENDOTHALL	100	0.5	BDL
ENDRIN	2	0.01	BDL
ETHYLENE DIBROMIDE(EDB)	50	10	BDL
GLYPHOSATE(ROUND UP)	700	5	BDL
HEPTACHLOR	0.4	0.02	BDL
HEPTACHLOR EPOXIDE	0.2	0.02	BDL
HEXACHLOROBENZENE	1	0.1	BDL
HEXACHLOROCYCLOPENTADIENE	50	0.1	BDL
LINDANE	0.2	0.02	BDL
METHOXYCHLOR	40	0.1	BDL
OXAMY(VYDATE)	200	0.5	BDL
PENTACHLORPHENOL	1	0.04	BDL
PICLORAM (TORDON)	500	0.15	BDL
PCBS	0.5	0	BDL
SIMAZINE	4	0.15	BDL
2,4,5 - TP(SILVER)	50	0.08	BDL
TOXAPHENE	3	0.08	BDL
NITRATES(2021)	10	0.2	0.36

LIKELY SOURCES OF CONTAMINATION

LEAD: CORROSION OF HOUSEHOLD PLUMBING SYSTEMS, AND EROSION OF NATURAL DEPOSITS.
 COPPER: CORROSION OF HOUSEHOLD PLUMBING SYSTEMS. BACTERIOLOGICAL/DISINFECTION
 THERE WHERE NO POSITIVE BACTERIOLOGICAL SAMPLE RESULTS IN 2021.
 NO DISINFECTANT RESIDUAL VIOLATIONS.

DEFINITIONS

"MCL" MEANS MAXIMUM CONTAMINANT LEVEL
 "BDL" MEANS BELOW DETECTABLE LIMIT
 "pCi/L" MEANS PICO CURIES PER LITER
 "D.L." MEANS DETECTABLE LIMIT
 "mg/L" MEANS PART PER MILLION
 OR MILLIGRAMS PER LITER
 "UG/L" MEANS PART PER BILLION
 OR MICROGRAMS PER LITER
 "U.C." MEANS UREGULATED CONTAMINATES

AVERAGE	<u>MCL</u>	<u>D.L.</u>	<u>RESULT</u>
<u>VIOLATILE ORGANIC CONTAMINANTS (2018)</u>	<u>ug/L</u>	<u>ug/L</u>	
BENZENE	5	0.5	BDL
CARBON TETRACHLORIDE	5	0.5	BDL
CHLOROBENZENE	100	0.5	BDL
1,2- DICHLOROBENZENE	600	0.5	BDL
1,4 - DICHLOROBENZENE	75	0.5	BDL
1,2 - DICHLOROETHANE	5	0.5	BDL
1,1 - DICHLOROETHYLENE	7	0.5	BDL
1,2 - DICHLOROETHYLENE, CIS	70	0.5	BDL
1,2 - DISCHLOROETHYLENE, TRANS	100	0.5	BDL
DICHLOROMETHANE	5	0.5	BDL
1,2 - DICHLOROPROPANE	5	0.5	BDL
ETHYLBENZENE	700	0.5	BDL
STYRENE	100	0.5	BDL

UNREGULATED VIOLATILE ORGANIC CONTAMINANTS (2019)

	<u>MCL</u>	<u>D.L.</u>	<u>RESULT</u>
	<u>ug/L</u>	<u>ug/L</u>	
TETRACHLOROETHYLENE	5	0.5	BDL
TOLUENE	1000	0.5	BDL
1,2,4 - TRICHLOROBENZENE	70	0.5	BDL
1,1,1 - TRICHLOROETHANE	200	0.5	BDL
1,1,2 - TRICHLOROETHANE	5	0.5	BDL
TRICHLOROETHYLENE	5	0.5	BDL
VINYL CHLORIDE	2	0.5	BDL
TOTAL XYLENES	10000	0.5	BDL
BROMOBENZENE	0	0.5	BDL
BROMOMETHANE	0	0.5	BDL
CHLOROETHANE	0	0.5	BDL
2 - CHLOROTOLUENE	0	0.5	BDL
4 - CHLOROTOLUENE	0	0.5	BDL
1,3 - DICHLOROBENZENE	0	0.5	BDL
1,1,1,2 - TETRACHLOROETHANE	0	0.5	BDL
1,1,2,2 - TETRACHLOROETHANE	0	0.5	BDL
1,2,3 - TRICHLOROPROPANE	0	0.5	BDL
DIBROMOMETHANE	0	0.5	BDL
BROMODICHLOROMETHANE	0	0.5	BDL
BROMOFORM	0	0.5	BDL
CHLORODIBROMOMETHANE	0	0.5	BDL
CHLOROFORM	0	0.5	BDL
METHY-TERT-BUTYL ETHER(MTBE)	5000		BDL
LEAD 90 TH PERCENTILE (2020)		6	mg/L
COPPER 90 TH PERCENTILE (2020)		0.296	mg/L
HALOACTIC ACIDS 5		60	28.37 AVG
2021 RANGE 21 TO 38			
TOTAL TRIHALOMETHANES		80	27.87AVG
2021 RANGE 1 TO 59			

	<u>MFL</u>	<u>D.L.</u>	<u>RESULT</u>
ASBESTOS	7	0.16	BDL

If you have any questions about the quality of your water, please attend our Waterworks board meetings. The meetings are the second Tuesday of every month beginning at 6:00 CST at the Town Hall.

Our Public Water System Identification number is IN5274010. Listed are some important contacts you should have question concerning water quality:

Santa Claus Town Hall/Water Bills	812-937-2551
Russ Luthy, Utility Superintendent	812-544-3329
Water Department	812-544-2354
Patoka Lake Regional Office	800-313-5589

Emergencies during weekends, holidays and after hours, call 812-686-2234 (Cell phone) or page personnel at 812-481-0370 (pager). All numbers listed will be a long-distance call. Please use only in emergencies.

Friendly Reminder:

For billing questions call the Town Hall 812-937-2551 ext. #2

If your water is shut off for any reason, there will be a \$40.00 reconnect fee

Rates and Fees: Effective January 2018

Water Connection \$750.00

Out of Town Limits applications (water only) \$ 125.00

Water Deposit \$150.00 Inspection- Residential. \$ 35.00



Fire Hydrant accessibility

In 2020 while responding to a fire in CLV, the fire department had problems accessing and operating the nearest fire hydrant. The problem was due to landscaping and plantings that were blocking clear access to the hydrant. With the safety of all residents in mind, please keep an approximate ten-foot diameter clear area around hydrants in your yard.

Consumer Confidence Report

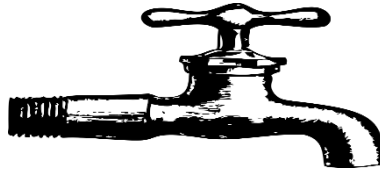
available on-line

Every year since the early 2000's, the Santa Claus Water Utility has been distributing this water quality report to our customers. Hopefully the information has been engaging and helpful.

A lot of water has gone under the bridge-so to speak- since 2003. Way back then we were distributing paper copies of the report via the USPS. Not only expensive to produce and mail, but also time consuming for staff at the water utility.

Beginning with the 2022 report, we will be posting the report on the town's website. Paper copies will still be available for those without internet.

After July 1, 2022, please see our website: www.townofsantaclaus.com for all of the same information provided in recent reports.



Remember for boil advisory, water outage, etc., notifications, subscribe to CodeRed by following the link on Spencer County's website

As always you may call the Superintendent's office at, 812.544.3329 for questions or concerns.

Statement Addressing Lead in Drinking Water:

"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. Santa Claus Utilities 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>." Lead and copper testing is done every 3 years in accordance with required regulations.