EPA and Wisconsin Requirements for Racine's Drinking Water

Water delivered by the RWU must be safe from microbes and chemical toxicity, and also from exposure to trace levels of chemicals over a lifetime of 80 years. Source water (Lake Michigan), treated finished water, distribution system water, and residential water throughout the city and surrounding communities are monitored for over 90 regulated contaminants. In 2021, the Racine Water Utility conducted over 49,000 in-house water quality analyses, along with thousands of tests by contracted laboratories. The Water Quality Table, found on the reverse side of this brochure, lists substances tested by RWU during 2021 and preceding years. To ensure that tap water is safe, the EPA prescribes regulations that limit the amount of certain contaminants in the water provided by public water systems. 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 at (800) 426-4791.

Lead in Drinking Water

Water that is too corrosive can dissolve lead and other contaminants from your home's plumbing fixtures. For the seventh consecutive year. the RWU lead results were significantly below the EPA established 15 parts per billion (ppb) action level. For 2021, the 90th percentile lead result was 5.0 ppb, with one of the 53 lead samples exceeding the 15 ppb action level. The 90th percentile copper result was 0.23 parts per million (ppm), with none of the 53 copper samples exceeding the 1.3 ppm action level. In the 29 years of sampling, only one sample ever exceeded the copper action level. To see more details regarding lead and copper results, please refer to the 2021 Water Quality Table on the reverse side of this pamphlet. Results can also be found online through the WDNR at https://dnr.wi.gov/dwsviewer/DS/View/138019. RWU is currently undertaking an optimal corrosion control study under the direction of the WDNR, with the goal of further optimizing treatment techniques and water quality to reduce our consumer's exposure to lead.

Lead in drinking water is rarely the sole cause of lead poisoning, but it can add to the person's total lead exposure. All potential sources of lead in the household should be identified and removed, replaced, or reduced. It is possible that the lead levels in your home may be higher than at other homes in the area due to materials used in the construction of your home's plumbing system. If you are concerned about lead levels in your water (young children are more vulnerable to lead than adults), you may wish to have your water tested. Flushing your tap water for 30 seconds to 2 minutes prior to using the water is an effective method to reduce exposure to lead. Additional information is available from the Safe Drinking Water Hotline at (800) 426-4791.

Private Lead Service Line Replacement Program: The Utility has been assisting homeowners with lead removal since the fall of 2016,

when it first began its Private Lead Service Line Replacement Program. The Program is funded by the Department of Natural Resources on an annual basis, and is used to replace lead services in targeted areas or in emergency situations. Because funding is limited, only those homeowners who receive an invitation from the Utility are eligible for the program. Those homeowners who do receive an invitation are strongly encouraged to take advantage of this program and in most cases can have their lead services replaced for free. For further information on your water service material type, size, and age, please access the Utility's public service inventory mapping system at: bit.ly/racinewater.

Sources and Contaminants

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. It can also pick up substances resulting from the presence of animals or humans. Substances that can be present in source water include:

Microbial contaminants, such as viruses and bacteria, which may come from wastewater treatment plants, septic systems, agricultural livestock operations, and wildlife.

Inorganic contaminants, such as salts and metals, which can occur naturally or result from storm water 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 occur naturally or result from oil and gas production, and mining activities.

Some people may be more vulnerable to contaminants found 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 for infections. These people should seek advice about drinking water from their health care providers. EPA/Centers for Disease Control (CDC) guidelines on appropriate means to lessen the risk of infection by Cryptosporidium and other microbial contaminants can be obtained by calling the EPA's Safe Drinking Water Hotline at (800) 426-4791.

Unregulated Contaminant Monitoring Rule The U.S. EPA uses the Unregulated Contaminant Monitor

The U.S. EPA uses the Unregulated Contaminant Monitoring Rule (UCMR) to collect data for contaminants which currently do not have any health-based standards set under the Safe Drinking Water Act (SDWA). This testing program assists the EPA in determining occurrence of unregulated contaminants and whether future regulation is warranted. The UCMR program began in 2001, with RWU participating in every round due to being a large water system serving > 100,000 people. Each round of the UCMR monitors as many as 30 contaminants every 5 years. Beginning in 2023, RWU will participate in UCMR5 which will sample for 29 per- and polyfluoroalkyl substances (PFAS/PFOS) and lithium in drinking water. For more information visit the EPA website: https://www.epa.gov/dwucmr

UCMR3 Results: Sampled in 2014-2015

UOIVING NEGULIS. GALILPIEU III 2014-2019				
Potential Contaminant Sampled For:	Results (ppb) (Range):	Source:		
Vanadium	0.21 (<0.2 – 0.28)	Erosion of natural deposits		
Molybdenum	1.03 (<1 – 1.1)	Erosion of natural deposits		
Cobalt	No Detects	Erosion of natural deposits		
Strontium	136.2 (122.6 – 153.8)	Erosion of natural deposits		
Total Chromium	0.26 (0.22 – 0.29)	Erosion of natural deposits		
Hexavalent Chromium	0.20 (0.16 – 0.26)	Erosion of natural deposits, industrial pollution		

In addition to the testing for the chemicals above: chlorate, 7 volatile organic compounds, 1 synthetic compound, 7 hormones, and 6 per-fluorinated compounds were also tested for. None of these possible contaminants were detected. Chlorate can be formed in the disinfection process, while the other groups can be found resulting from pollution.

UCMR4 Results: Sampled in 2018-2019

Potential Contaminant	Results (ppb)	Source:
Sampled For:	(Range):	
Disinfection By-Products	25.2	By-product of
(9 halo-acetic acids)	(18.5-33.5)	disinfection process
Bromide	40	Erosion of natural
	(34-54)	deposits
Total Organic Carbon	1908	Erosion of natural
	(1800-2080)	deposits, vegetation
		decay, pollution
Manganese	2.38	Erosion of natural
	(<0.4 - 2.38)	deposits, drinking
		water additive, in-
		dustrial by-product

In addition to the testing for the chemicals above: 8 cyanotoxins, 3 alcohols, 3 semi-volatile chemicals, 8 pesticides, and 2 metals (germanium and manganese) were also tested for. Except for manganese, none of these possible contaminants were detected. Cyanotoxins can be produced by algae, germanium and manganese from the erosion of natural deposits, with the others originating from pollution.

For a complete list of these chemicals contact the Racine Water Utility at (262) 636-9534.

Internet Information Sources

In addition to the numbers listed in other sections of this report, there are many governmental and water industry websites available on the internet providing information on water quality, regulations, water treatment and public health. Provided below are a number of these sites and web site addresses:

Organization

Web Address

United States Environmental Protection Agency

Wisconsin Department of Natural Resources

Wisconsin Public Service Commission American Water Works Association

Wisconsin Water Association Rural Water Association

National Sanitation Foundation

www.epa.gov

www.dnr.state.wi.gov

www.psc.wi.gov www.awwa.org

www.wiawwa.org

www.nrwa.org

www.nsf.org

Racine Water Utility Contact Numbers:

Water Quality Concerns: (262) 636-9441 or (262) 636-9534

Billing Questions: (262) 636-9181

Reporting Possible Water Main or Service Breaks: (262) 636-9185 Scheduling Service Appointments:

(262) 636-9185 or (262) 636-9186 **Visit us online at**

Para ayuda en español llame: (262) 636-9185 de 7:00am-3:00pm

www.cityofracine.org/Water.aspx

For an electronic version of this report go to: http://www.cityofracine.org/water/2021CCR



Racine Water Utility
100 Hubbard Street • Racine, WI 53402

Welcome to Racine's Drinking Water Consumer Confidence Report

This brochure is a snapshot of your residence's water quality provided last year. Included are the details about where your water comes from, what it contains, and how it compares to the Environmental Protection Agency (EPA) and State of Wisconsin standards. The Racine Water Utility's (RWU) water quality meets or exceeds all Federal and State drinking water quality standards. The Racine Water Utility operates a surface water membrane ultra-filtration treatment plant and employs 32 state certified waterworks operators. We are committed to providing you with information, because informed customers are our best allies.

Water Source Supply

Water delivered to Racine customers is treated and purified water drawn from Lake Michigan. The lake provides abundant, high quality water for many major cities along its shores.

The Wisconsin Department of Natural Resources (WDNR) completed source water assessments across the state of Wisconsin in the early 2000s. The RWU source water assessment was completed in April 2003, which determined the relative susceptibility of Lake Michigan to contamination in the Racine area. Although the water treatment plant protects its customers from potentially adverse health effects due to contamination, the source water assessment provides a first step guide for the community to implement preventative practices and limit contamination.

For more information go to:

https://www.epa.gov/sourcewaterprotection

Public Invited

The Racine Water Utility invites the public to attend its Waterworks Commission Meetings. Due to the COVID pandemic the meetings are now virtual until further notice.

Please visit the City for Racine's Legislative Calendar for information on how to attend these meetings on-line. (City of Racine - Calendar (legistar.com)) If in-person meetings resume, the meeting location will be: The City Hall Annex, 800 Center Street, Room 227, Racine, Wisconsin 53403.

All meetings begin at $4:00\ PM$. Meeting dates in 2022 are:

January 18th
February - No Meeting
March 15th
April 19th
May 17th
June - No Meeting

July 19th August 16th September 20th October 18th November 15th December - No Meeting



Racine Water Utility
2021 Drinking Water
Quality Report



Racine Waterworks 2021 Water Quality Table

MICROBIOLOGICAL RESULTS (SAMPLED IN 2021)

Your water is tested for many contaminants every year. The following table lists all the detected and non-detected contaminants tested for in 2021. RWU is allowed to monitor for some contaminants less frequently than once per year. Those results are also found in the table below and must be reported for the previous 5 years if not tested in the preceding year.

	ED IN 2021)				
Contaminant	MCLG	MCL	Highest Monthly	Violation	Major Source
Total Coliform Bacteria	0	< 5%/month	0.00%	No	Human and animal fecal waste
Viruses and Legionella	0	TT	0.0070		Found naturally in water, human and animal fecal waste, multiplies in heating systems
PRIMARY REGULATED INORGANIC RI	SULTS (SAMP	I FD IN 2021)			
	•		D 11 (D)		
Contaminant	MCLG	MCL	Results (Range)	Violation	Major Source
Asbestos (million fibers per liter)	c	/ G	<0.20	No No	Erosion of natural deposits
Antimony (ppb)	6	6 10	<0.32 0.71	No No	Discharge from petroleum refineries, fire retardants, ceramics, electronics, solder Erosion of natural deposits
Arsenic (ppb) Barium (ppb)	10 2000	2000	20	No No	Erosion of natural deposits Erosion of natural deposits
Beryllium (ppb)	2000	4	< 0.06	No	By-product of industrial processes
Cadmium (ppb)		5	< 0.12	No	By-product of industrial processes, erosion of natural deposits
Chromium (ppb)		100	<0.58	No	Erosion of natural deposits
Cyanide (ppb) (Sampled in 2020)		200	<7	No	By-product of industrial, mining, and metal finishing processes
Mercury (ppb)		2	< 0.020	No	Erosion of natural deposits
Nickel (ppb)		100	0.57	No	Erosion of natural deposits
Nitrite (ppm)	1	1	< 0.036	No	Runoff from fertilizer use, leaching from septic tanks, sewage
Selenium (ppb)		50	< 0.47	No	Erosion of natural deposits
Thallium (ppb)		2	< 0.11	No	Erosion of natural deposits
Fluoride (ppm)		4	Average: 0.69	No	Water additive which promotes strong teeth, erosion of natural deposits,
			Range 0.55 - 0.81		discharge from fertilizer and aluminum factories
Nitrate (ppm)	10	10	0.42	No	Runoff from fertilizer use, leaching from septic tanks, sewage
					Erosion of natural deposits
рН		6.5 - 8.5	Average: 7.61	No	Erosion of natural deposits
·			Range 7.40 - 7.82		
Chlorine Residual (ppm)	4.0	4.0	Average: 1.24	No	Water additive for disinfection
Onionno nosidadi (ppin)	7.0	4.0	Range 1.06 - 1.48	NO	water additive for distribution
DICINETATION BY PROPULATE DICT	DIDUTION (CAI	ADLED 4 CITEC			
DISINFECTION BY-PRODUCTS - DIST					
Contaminant	MCLG	MCL	Results	Violation	Major Source
TTHM (ppb) (Total trihalomethanes)	0	80	31.4 (13 - 44)	No	By-product of drinking water chlorination
HAA (ppb) (Haloacetic acids)	0	60	15.4 (9.2 - 21)	No	By-product of drinking water chlorination
ORGANIC COMPOUND RESULTS (SAM	PLED IN 2020				
	· · · · · · · · · · · · · · · · · · ·	unds were tested wit	th no dotaction		Du product of industrial processes patroloum production, and stations
Volatile Organic Compounds (ppb)		of any of these chem		No	By-product of industrial processes, petroleum production, gas stations, urban storm run-off and residential uses
Companie Companie (mph)					uiban storm run-on and residential uses
Synthetic Organic Compounds (ppb)	MCLG	MCL	Results		
Atrazine (ppb)	3	3	0.045, 0.035	No	Storm run-off from agriculture pesticide application
Dual (ppb)	NA	NA	0.012, 0.011	No	
	41 other compou	nds were tested with	no detection of any of		By-product of industrial processes, petroleum production, gas stations,
	Trodior compou	these chemicals	no dottotion of any of	No	urban storm run-off and residential uses
LEAD AND COPPER RESULTS (SAMPL	ED IN 2021) p-		and the second s		
LEAD AND COFFEN NESOLIS (SAIVIFL	LD IN ZUZI) Re	Suits of Lead and Co	opper Sampling at Resid	entiai water raps	
Contaminant	No. of sites	MCLG	Action Level	90% Level/	Major Source
Contaminant	Exceeding A.L.	WOLU	ACTION LEVE	Violation	Major Source
Copper (ppm)	0 out of 53	1.3	A.L.=1.3	0.23 / No	Corrosion of household plumbing systems, erosion of natural deposits
Lead (ppb)	1 out of 53	0	A.L.=15	5.0 / No	Corrosion of household plumbing systems, erosion of natural deposits
Load (ppb)	1 001 01 33	U	A.L.—10	3.07110	ourrosion of nouscribia plantising systems, crosion of natural deposits
TUDDIDITY AND DADTIOU ATE DECU	TO CAMPLED	INLOCOTA			
TURBIDITY AND PARTICULATE RESUI					
TURBIDITY AND PARTICULATE RESUI	LTS (SAMPLED MCLG	IN 2021) MCL	Results	Violation	Major Source
		MCL	Sand Filtration		Major Source
		MCL TT Never > 1 NTU,	Sand Filtration Max = 0.24 NTU	Violation No	Major Source
		MCL TT Never > 1 NTU, and	Sand Filtration Max = 0.24 NTU TT Never >1		Major Source Soil runoff, suspended matter in source water
Contaminant	MCLG	MCL TT Never > 1 NTU, and 95% of	Sand Filtration Max = 0.24 NTU TT Never >1 Membrane Filtration	No	
Contaminant	MCLG	MCL TT Never > 1 NTU, and	Sand Filtration Max = 0.24 NTU TT Never >1 Membrane Filtration Max = 0.112 NTU		
Contaminant Turbidity (NTU)	MCLG na	MCL TT Never > 1 NTU, and 95% of time < 0.3 NTU	Sand Filtration Max = 0.24 NTU TT Never >1 Membrane Filtration Max = 0.112 NTU 100% time <0.3 NTU	No No	Soil runoff, suspended matter in source water
Contaminant Turbidity (NTU) Next to disinfection of the water, the most important	MCLG na purification process	MCL TT Never > 1 NTU, and 95% of time < 0.3 NTU	Sand Filtration Max = 0.24 NTU TT Never >1 Membrane Filtration Max = 0.112 NTU 100% time <0.3 NTU spended particles. Partic	No No culate matter in th	Soil runoff, suspended matter in source water ne water may be disease causing micro-organisms or can provide hiding places for micro-
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Contaminant Turbidity (NTU) Next to disinfection of the water, the most important organism to escape disinfection chemicals. Turbidit and re-filters the water through membrane filters. The contaminant is the contaminant in the contaminant in the contaminant is the contaminant in the contaminant	MCLG na purification process y is the measuremer he RWU's maximum	MCL TT Never > 1 NTU, and 95% of time < 0.3 NTU is the removal of sutof water clarity. Water lefity was 0.027 NTU for the sum of t	Sand Filtration Max = 0.24 NTU TT Never >1 Membrane Filtration Max = 0.112 NTU 100% time <0.3 NTU spended particles. Particleter systems must meet of eaving the treatment plan	No No culate matter in th clarity standards a nt for 2021 was 0.	Soil runoff, suspended matter in source water ne water may be disease causing micro-organisms or can provide hiding places for micro- as listed in the above table. The RWU filters the treated water first through sand filters,
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For a more comprehensive water quality parameter list, please contact the Racine Water Utility or visit us online at www.cityofracine.org/Water.aspx

300 (294-310)

How to Read the Water Quality Table: Use the definitions here to understand what the scientific data means for your drinking water. The Compliance Level may be the substance's highest level detected in the water or an average concentration of all samples tested, depending on the regulation for the substance. If multiple samples were tested in 2021, the lowest and highest detected values are listed under Range of Detections. Regulated substances have Maximum Contaminant Levels (MCLs) set by the EPA. This is the highest level of the substance legally allowed in drinking water. Some contaminants also have a Maximum Contaminant Level Goals (MCLGs). This is the level of a substance where there is no known or expected health risk. MCLGs allow for a margin of safety. MCLs are set as close to MCLGs as practical using the best available

na

na

Conductivity (umho/cm)

water treatment processes. Monitoring for unregulated contaminants is also conducted. Although these are substances that do not have MCLs, the EPA evaluates them when assessing future drinking water regulations. The MCL for lead and copper is known as the **Action Level (AL)**. This is the concentration of a contaminant which a water system must follow. For compliance, 90% of all samples tested must be below the Action Level. Turbidity is a measurement of water clarity, used to evaluate the effectiveness of the filtration system. One criterion for enforcement of the turbidity regulation is a **Treatment Technique** (TT). This is a water treatment process that is required by the EPA to reduce the level of turbidity in the water. **The Unit of Measurement** reported for each

No

Erosion of natural deposits

ppm: parts per million or milligrams per liter
 ppb: parts per billion or micrograms per liter
 pCi/l: picocuries per liter, a measure of radioactivity
 NTU: nephelometric turbidity units
 umho/cm: micromhos per centimeter