

NARRAGANSETT WATER DEPT-NORTH END

Consumer Confidence Report – 2022

Covering Calendar Year – 2021

RI1858429 (Source of Supply-SUEZ Water)

This brochure is a snapshot of the quality of the water that we provided last year. Included are the details about where your water comes from, what it contains, and how it compares to Environmental Protection Agency (EPA) and state standards. We are committed to providing you with information because informed customers are our best allies. If you would like to learn more about our decision-making processes that affect drinking water quality, please call JONATHAN GERHARD at 401-782-0637.

Our drinking water is supplied from another water system through a Consecutive Connection (CC). To find out more about our drinking water sources and additional chemical sampling results, please contact our office at the number provided below. Your water comes from:

Source Name	Source Water Type
No other sources to display.	

Buyer Name	Seller Name
NARRAGANSETT WATER DEPT-NORTH END	SUEZ WATER

We purchase water for this area of the North End (PWSID# RI1858429) water system from SUEZ Water. The water we receive from SUEZ Water comes from six (6) gravel packed wells, plus one emergency well, located in two well fields. Both well fields are located off Tuckertown Road in South Kingstown. These wells can produce up to 7 million gallons of water per day. Both well fields draw water from the Mink Brook Aquifer. SUEZ Water has initiated a very aggressive Wellhead Protection Program which has identified a well protection area around both well fields. SUEZ Water is also conducting an inventory regarding land use within this wellhead area. SUEZ Water uses sodium hypochlorite for disinfection. Water treated at each well field is also aerated to make your water less aggressive. SUEZ Water adds lime for pH adjustment and zinc orthophosphate for corrosion control. This reduces the possibility of lead and copper in household plumbing from dissolving in the water.

The RI Department of Health, in cooperation with other state and federal agencies, has assessed the threats to SUEZ Water's supply sources. The assessment considered the intensity of development, the presence of businesses and facilities that use, store or generate potential contaminants, how easily contaminants may move through the soils in the Source Water Protection Area (SWPA), and the sampling history of the water. Our monitoring program continues to assure that the water delivered to your home is safe to drink. The assessment found that SUEZ Water's sources are at LOW RISK of contamination. This does NOT mean that the water cannot become contaminated. Protection efforts are necessary to assure continued water quality. The complete Source Water Assessment Report is available from SUEZ Water or the Department of Health at (401) 222-6867.

Some people may be more vulnerable to contaminants in drinking water than the general population. Immuno-compromised persons such as those 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 infection by *Cryptosporidium* and other microbial contaminants are available from the Safe Drinking Water Hotline (800-426-4791).

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

The sources of drinking water (both tap water and bottled water) included 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 sources water before we treat it include: Microbial contaminants, such as viruses and bacteria, which may come from sewage treatment plants, septic systems, livestock operations and wildlife. Inorganic contaminants, such as salts and metals, which can be naturally-occurring or result from urban 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 storm water run-off, agriculture, and residential users. Radioactive contaminants, which can be naturally occurring or the result of mining activity. Organic contaminants, including synthetic and volatile organic chemicals, which are by-products of industrial processes and petroleum production, and also come from gas stations, urban storm water run-off, and septic systems.

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

Our water system is required to test a minimum of 5 samples per month in accordance with the Total Coliform Rule for microbiological contaminants. Coliform bacteria are usually harmless, but their presence in water can be an indication of disease-causing bacteria. When coliform bacteria are found, special follow-up tests are done to determine if harmful bacteria are present in the water supply. If this limit is exceeded, the water supplier must notify the public.

Water Quality Data

The following tables list all of the drinking water contaminants which were detected during the 2021 calendar year. The presence of these contaminants does not necessarily indicate the water poses a health risk. Unless noted, the data presented in this table is from the testing done January 1- December 31, 2021. The state requires us to monitor for certain contaminants less than once per year because the concentrations of these contaminants are not expected to vary significantly from year to year. Some of the data, though representative of the water quality, is more than one year old. **Our water system makes every effort to provide you with safe drinking water.**

Terms & Abbreviations

Maximum Contaminant Level Goal (MCLG): the "Goal" is the level of a contaminant in drinking water below which there is no known or expected risk to human health. MCLGs allow for a margin of safety.

Maximum Contaminant Level (MCL): the "Maximum Allowed" MCL is the highest level of a contaminant that is allowed in drinking water. MCLs are set as close to the MCLGs as feasible using the best available treatment technology.

Secondary Maximum Contaminant Level (SMCL): recommended level for a contaminant that is not regulated and has no MCL.

Action Level (AL): the concentration of a contaminant that, if exceeded, triggers treatment or other requirements.

Treatment Technique (TT): a required process intended to reduce levels of a contaminant in drinking 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 contaminants.

Non-Detects (ND): lab analysis indicates that the contaminant is not present.

Parts per Million (ppm) or milligrams per liter (mg/l)

Parts per Billion (ppb) or micrograms per liter (µg/l)

Picocuries per Liter (pCi/L): a measure of the radioactivity in water.

Millirems per Year (mrem/yr): measure of radiation absorbed by the body.

Monitoring Period Average (MPA): An average of sample results obtained during a defined time frame, common examples of monitoring periods are monthly, quarterly and yearly.

Nephelometric Turbidity Unit (NTU): a measure of the clarity of water. Turbidity in excess of 5 NTU is just noticeable to the average person. Turbidity is not regulated for groundwater systems.

Running Annual Average (RAA): an average of sample results obtained over the most current 12 months and used to determine compliance with MCLs.

Locational Running Annual Average (LRAA): Average of sample analytical results for samples taken at a particular monitoring location during the previous four calendar quarters.

Testing Results for: NARRAGANSETT WATER DEPT-NORTH END

Microbiological	Result	MCL	MCLG	Typical Source	Violation
COLIFORM (TCR)	In the month of July, 1 sample(s) returned as positive	Treatment Technique Trigger	0	Naturally present in the environment	No
COLIFORM (TCR)	In the month of August, 1 sample(s) returned as positive	Treatment Technique Trigger	0	Naturally present in the environment	No

Regulated Contaminants	Collection Date	Highest Value	Range (low/high)	Unit	MCL	MCLG	Typical Source	Violation
No detected results were found in the past five years.								

Disinfection Byproducts	Sample Point	Monitoring Period	Highest LRAA	Range (low/high)	Unit	MCL	MCLG	Typical Source	Violation
TOTAL HALOACETIC ACIDS (HAA5)	COFFEE CONNECTION	2021	30	1.3 – 35	ppb	60	0	Byproduct of drinking water disinfection	No
TTHM	COFFEE CONNECTION	2021	82	62.4 - 74.1	ppb	80	0	Byproduct of drinking water disinfection	Yes

Lead and Copper	Monitoring Period	90 th Percentile	Range (low/high)	Unit	AL	Sites Over AL	Typical Source
COPPER, FREE	2019 - 2021	0.16	0.014 - 0.2	ppm	1.3	0	Corrosion of household plumbing systems
LEAD	2019 - 2021	0	0 - 27	ppb	15	1	Corrosion of household plumbing systems

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. Your water system 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>.

Distribution Disinfectant Residual Level	Monitoring Period	Highest MPA	RAA	Units	MRDL	MRDLG	Violation
Monthly Average	2021	0.3400	0.18	MG/L	4	4	No

During the 2021 calendar year, we had the below noted violation(s) of drinking water regulations.

Federal Compliance Period	Analyte	Comments
1/1/2021 - 3/31/2021	TTHM	Locational running annual average was greater than MCL
4/1/2021 - 6/30/2021	TTHM	Locational running annual average was greater than MCL

The Narragansett Water Department is required to monitor your drinking water for specific contaminants on a regular basis. Results of monitoring are an indicator of whether or not our drinking water meets health standards. Chlorine utilized for disinfection degrades and reacts with natural organic matter in the water to form volatile organic chemicals known as Disinfection Byproducts, including Total Trihalomethanes (TTHM). The regulated Maximum Contaminant Level (MCL) for TTHM is 0.080 milligrams per liter (mg/l). The Location Running Annual Average (LRAA) in the Narragansett Water Department North End water system area supplied with water purchased from SUEZ Water was greater than 0.080 mg/l for the quarterly compliance periods of 01/01/21 to 03/31/21 and 04/01/21 to 06/30/21.

We have taken the following action for the North End water system area supplied with water purchased from SUEZ Water to correct this situation: reviewed source and purchase water quality concerns with our supplier - Suez has indicated that chlorine treatment dose is adjusted at the source water treatment facility

with the intention to control TTHM levels in the distribution system while maintaining adequate disinfection residual concentration; cleaned and inspected water storage tank interiors in December 2019 - no significant deficiencies were found; adjusted water storage tank operating control levels to reduce water age; conducted distribution system flushing in 2021 to purge stagnant water and clean pipes to reduce chlorine demand; continued hydraulic model project to develop computer based model of water systems and evaluate alternatives and recommendations for improvements. The LRAA in the Narragansett Water Department North End water system area supplied with water purchased from SUEZ was less than 0.080 mg/l for the compliance periods from 07/01/21 to 12/31/21.

Additional Required Health Effects Language:

Infants and children are typically more vulnerable to lead in drinking water than the general population. It is possible that lead levels at your home may be higher than at other homes in the community as a result of materials used in your home's plumbing. If you are concerned about elevated lead levels in your home's water, you may wish to have your water tested and flush your tap for 30 seconds to 2 minutes before using tap water. Additional information is available from the Safe Drinking Water Hotline (800-426-4791).

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 systems, and may have an increased risk of getting cancer.

Coliforms are bacteria that are naturally present in the environment and are used as an indicator that other, potentially-harmful, bacteria may be present. Coliforms were found in more samples than allowed and this was a warning of potential problems.

There are no additional required health effects violation notices.

Some or all of our drinking water is supplied from another water system. The table below lists all of the drinking water contaminants, which were detected during the 2021 calendar year from the water systems that we purchase drinking water from.

Regulated Contaminants	Collection Date	Water System	Highest Value	Range (low/high)	Unit	MCL	MCLG	Typical Source	Violation
BARIUM	8/4/2020	SUEZ WATER	0.014	0.003 - 0.014	ppm	2	2	Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits	No
CHROMIUM	8/4/2020	SUEZ WATER	2	0 - 2	ppb	100	100	Discharge from steel and pulp mills	No
NITRATE-NITRITE	3/4/2021	SUEZ WATER	2.4	0.68 - 2.4	ppm	10	10	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits	No

Please Note: Because of sampling schedules, results may be older than 1 year.

During the 2021 calendar year, the water systems that we purchase water from had the below noted violation(s) of drinking water regulations.

Water System	Type	Category	Analyte	Compliance Period
SUEZ WATER	Locational running annual average	MCL	TTHM	1/1/2021 - 3/31/2021

There are no additional required health effects notices.