



# Naval Air Station Corpus Christi 2021 Drinking Water Consumer Confidence Report



NAVAL AIR STATION CORPUS CHRISTI - PWS ID# TX1780017

Annual Water Quality Report for the period of January 1 to December 31, 2021.

This Consumer Confidence Report (CCR) is intended to provide you with important information about your drinking water and the efforts made by NAS Corpus Christi and the City of Corpus Christi to provide safe drinking water.

### For more information regarding this report contact:

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Este reporte incluye información importante sobre el agua para tomar. Para asistencia en español, favor de llamar al telefono (361) 961-5353.

### **Public Participation Opportunities:**

City of Corpus Christi:

Corpus Christi's Mayor and City Council meet the second, third, and fourth Tuesday of each month. Information about public participation, public comment, and input can be found by visiting www.cctexas.com/ departments/mayor-and-city-council.

NAS Corpus Christi:

None scheduled. Call 361-961-5353 for comments or questions.



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### **VULNERABLE POPULATIONS**

You may be more vulnerable than the general population to certain microbial contaminants, such as Cryptosporidium, in drinking water. Infants, some elderly, or immunocompromised persons such as those undergoing chemotherapy for cancer; persons who have undergone organ transplants; those who are undergoing treatment with steroids; and people with HIV/AIDS or other immune system disorders, can be particularly at risk from infections. You should seek advice about drinking water from your physician or health care providers. Additional guidelines on appropriate means to lessen the risk of infection by Cryptosporidium are available from the Safe Drinking Water Hotline (800-426-4791).

### 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. We are responsible for providing high quality drinking water, but we 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.



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### LEAD AND COPPER SAMPLING OF DRINKING WATER

The August 2021 sampling results from the testing of drinking water faucets for lead and copper did not exceed the EPA action levels. Public notices were posted at each sampling location within 30 days of receiving sample results.

Twenty (20) samples were taken during the August 2021 event. All results have been forwarded to the TCEQ per the Lead and Copper Drinking Water Rule.

\*An exceedance of the Lead Action Level is not a violation, but a trigger point requiring additional sampling, monitoring and actions currently being carried out by NASCC PWD.



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### NAS CORPUS CHRISTI DRINKING WATER SOURCE

Naval Air Station Corpus Christi's (NAS CC's) drinking water system is a Purchased Surface Water System. NAS CC purchases drinking water from the City of Corpus Christi. The City of Corpus Christi's 2021 CCR data is appended to this CCR. The Texas Commission on Environmental Quality (TCEQ) regulates water quality.

TCEQ Source Water Name: SWP I/C FROM CORPUS CHRISTI - CC FROM TX1780003 CITY OF CORPUS CHRISTI

Type of Water: Surface Water Location: Nueces County

### INFORMATION ABOUT SOURCE WATER ASSESSMENTS

The TCEQ has completed a Source Water Assessment for all drinking water systems that own their sources. The report describes the susceptibility and types of constituents that may come into contact with your drinking water source based on human activities and natural conditions. The system(s) from which we purchase our water received the assessment report. For more information on source water assessments and protection efforts at our system, contact Biji Pandisseril by phone at 361-961-5353, or by email at biji.a.pandisseril.civ@us.navy.mil.

For more information about your sources of water, please refer to the Source Water Assessment Viewer available at the following URL: http://www.tceq.texas.gov/gis/swaview.

Further details about sources and source-water assessments are available in Drinking Water Watch at the following URL: http://dww2.tceq.texas.gov/DWW/.



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### SOURCES OF DRINKING WATER

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.

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 EPAs Safe Drinking Water Hotline at (800) 426-4791.

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

Contaminants may be found in drinking water that may cause taste, color, or odor problems. These types of problems are not necessarily causes for health concerns. For more information on taste, odor, or color of drinking water, please contact the Public Works Environmental Office.

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 water runoff, industrial
  or domestic wastewater discharges, oil and gas production, mining, or farming.
- Pesticides and herbicides, which may come from 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.



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### **DEFINITIONS**

The following tables contain scientific terms and measures, some of which may require explanation.

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Avg:	Regulatory compliance with some Maximum Contaminant Levels (MCLs) are based on running annual average of monthly samples.
Action Level or AL	The concentration of a contaminant which, if exceeded, triggers treatment or other requirements which a water system must follow.
Level 1 Assessment:	A Level 1 assessment is a study of the water system to identify potential problems and determine (if possible) why total coliform bacteria have been found in our water system.
Level 2 Assessment:	A Level 2 assessment is a very detailed study of the water system to identify potential problems and determine (if possible) why an E. coli MCL violation has occurred and/or why total coliform bacteria have been found in our water system on multiple occasions.
Action Level Goal (ALG):	The level of a contaminant in drinking water below which there is no known or expected risk to health. ALGs allow for a margin of safety.
Maximum Contaminant Level or MCL:	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.
Maximum Contaminant Level Goal or 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.
Maximum residual disinfectant level or 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 or 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.
MFL	million fibers per liter (a measure of asbestos)
na:	not applicable.
mrem:	millirems per year (a measure of radiation absorbed by the body)
NTU	nephelometric turbidity units (a measure of turbidity)
pCi/L	picocuries per liter (a measure of radioactivity)
ppb:	micrograms per liter (ug/L) or parts per billion - or one ounce in 7,350,000 gallons of water.
ppm:	milligrams per liter (mg/L) or parts per million - or one ounce in 7,350 gallons of water.
Treatment Technique or TT:	A required process intended to reduce the level of a contaminant in drinking water.
ppt	parts per trillion, or nanograms per liter (ng/L)
ppq	parts per quadrillion, or picograms per liter (pg/L)



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### **REGULATED CONTAMINANTS DATA**

### Disinfectant Residual Table

	Collection Date	Average Level	Minimum Level	Maximum Level	Maximum Residual Disinfectant Level	Maximum Residual Disinfectant Level Goal	Unit of Measure	Violation (Y/N)	Likely Source of Contamination
Chloramine Residual	2021	2.57	1.0	4.0	4	4	ppm	N	Water additive used to control microbes.

### **Inorganic Contaminants**

Contaminant	Collection Date	Highest Level Detected	Range of Levels Detected	Maximum Contaminant Level Goal	Maximum Contaminant Level	Unit of Measure	Violation (Y/N)	Likely Source of Contamination
Nitrate [measured as Nitrogen]	2021	1	0.53-0.53	10	10	ppm	N	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits.



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### REGULATED CONTAMINANTS DATA, CONTINUED

### Lead and Copper (1 year periodicity)

Contaminant	Date Sampled	Maximum Contaminant Level Goal	Action Level	90th Percentile	# Sites Over Action Level	Unit of Measure	Violation (Y/N)	Likely Source of Contamination
Copper	2021	1.3	1.3	0.167	0	ppm	N	Erosion of natural deposits; Leaching from wood preservatives; Corrosion of household plumbing systems.
Lead	2021	0	15	4	0	ppb	N	Corrosion of household plumbing systems; Erosion of natural deposits.

#### **Total Coliform**

Contaminant	Year	Maximum Contaminant Level Goal	Total Coliform Maximum Contaminant Level	Highest No. of Positive	Fecal Coliform or <i>E. coli</i> Maximum Contaminant Level	Violation (Y/N)	Likely Source of Contamination
Total Coliform Bacteria	2021	0	0	0	When a routine sample and a repeat sample are total coliform positive, and one is also coliform or <i>E. coli</i> positive.	Z	Naturally present in the environment

Total coliform bacteria are used as indicators of microbial contamination of drinking water because testing for them is easy. While not disease-causing organisms themselves, they are often found in association with other microbes that are capable of causing disease. Coliform bacteria are hardier than many disease-causing organisms; therefore, their absence from water is a good indication that the water is microbiologically safe for human consumption.



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### REGULATED CONTAMINANTS DATA, CONTINUED

### **Disinfection By-Products**

Contaminant	Collection Date	Highest Level Detected	Averaged Range of Levels Detected	Maximum Contaminant Level Goal	Maximum Contaminant Level	Unit of Measure	Violation (Y/N)	Likely Source of Contamination
Haloacetic Acids (HAA5)	2021	25	10.5-28.8	No goal for the total	60	ppb	N	By-product of drinking water disinfection.
Total Trihalomethanes (TTHM)	2021	62	39.3-79	No goal for the total	80	ppb	N	By-product of drinking water disinfection.

<sup>\*</sup> The value in the Highest Level or Average Detected column is the highest average of all sample results collected at a location over a year

Contaminant	Collection Date	Average Level	Minimum Level	Maximum Level	Unit of Measure	Likely Source of Contamination
Bromoform	2021	20.7	3.2	33.5	ppb	Byproduct of drinking water disinfection
Chloroform	2021	6.7	2.1	14.2	ppb	Byproduct of drinking water disinfection
Bromodichloromethane	2021	13.1	8.5	19.1	ppb	Byproduct of drinking water disinfection
Dibromochloromethane	2021	21.8	7.5	27.3	ppb	Byproduct of drinking water disinfection

Bromoform, chloroform, bromodichloromethane, and dibromochloromethane, are disinfection byproducts. There is no maximum contaminant level for these chemicals at the entry point to distribution.

# City of Corpus Christi 2021 Drinking Water Consumer Confidence Report

NAS CC purchases drinking water from the City of Corpus Christi (Public Water System ID# TX1780003). The following pages provide data for contaminants monitored by the City of Corpus Christi.

#### **2021 DRINKING WATER QUALITY REPORT**

Our drinking water is regulated by the Texas Commission on Environmental Quality (TCEQ). The information that follows lists all the federally regulated or monitored contaminants which have been found in our drinking water. The data presented in this report is from the most recent testing done in accordance with the regulations.

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	INORGANIC CONTAMINANTS											
Year	Constituent (Unit of Measure)	Highest Average	Highest Single Measurement	Range	MCL [AL]	MCLG	Likely Source of Contaminant					
2021	Barium (ppm)	0.111	0.111	NA	2	2	Discharge of drilling waste; discharge from metal refineries; erosion of natural deposits					
2021	Chlorite (ppm)	0.64	0.73	0.33-0.73	1.00	0.80	By-product of drinking water disinfection					
2021	Copper (ppm)	0.0030	0.0030	NA	[1.3]	1.3	Corrosion of household plumbing systems; erosion of natural deposits					
2021	Cyanide (ppb)	125*	70	0-70	200	200	Discharge from steel/metal factories; discharge from plastic and fertilizer factories					
2021	Fluoride (ppm)	0.5	0.5	NA	4	4	Erosion of natural deposits; water additive which promotes strong teeth; discharge from fertilizer and aluminum factories					
2021	Nitrate (ppm)	0.71	0.71	NA	10	10	Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits					
2021	Selenium (ppb)	3.9	3.9	NA	50	50	Discharge from petroleum and metal refineries; erosion of natural deposits; discharge from mines					
*Calculat	Calculated as a running annual average: the average of four consecutive quarterly averages, which typically include a portion of the previous year's results.											
					ORGAN	IC CONTA	MINANTS					

	ORGANIC CONTAMINANTS										
Year	Constituent (Unit of Measure)		Highest Single Measurement	Range	MCL	MCLG	Likely Source of Contaminant				
2021	Atrazine (ppb)	0.11	0.11	NA	3	3	Runoff from herbicide used on row crops				
	DISINFECTION BY-PRODUCTS										
Year	Constituent (Unit of Measure)	Highest Yearly Average	<sup>'</sup> Range	MCL		MCLG	Likely Source of Contaminant				
2021	Total Trihalomethanes (ppb)	56.7	34.8-75.2	80		NA	By-product of drinking water disinfection				
2021	Total Haloacetic Acids (ppb)	29.2	9.5-54.7	60		NA	By-product of drinking water disinfection				

The locational running annual average is a health concern at levels above the MCL. Some people who drink water containing total trihalomethanes (TTHMs) in excess of the MCL over many years may experience problems with their liver, kidney, or central nervous systems, and may have an increased risk of getting cancer.

	TOTAL ORGANIC CARBON										
Year	Location (Unit of Measure)	Average	Range	Removal Ratio (TT)	MCLG	Likely Source of Contaminant					
2021	Source Water (ppm)	5.2	4.28-7.73	NA	NA	Naturally present in the environment					
2021	Plant 1 (ppm)	3.4	2.81-4.85	NA	NA	Naturally present in the environment					
2021	Plant 2 (ppm)	3.4	2.81-4.85	NA	NA	Naturally present in the environment					
2021	Plant 1 Removal Ratio (% removal**)	1.0	0.86-1.37	≥1.0	NA	Naturally present in the environment					
2021	Plant 2 Removal Ratio (% removal**)	1.0	0.86-1.37	≥1.0	NA	Naturally present in the environment					

Total Organic Carbon (TOC) has no health effects. The water disinfectant can combine with TOC to form disinfection by-products. Disinfection is necessary to ensure that water does not have unacceptable levels of pathogens. By-products of disinfection include trihalomethanes (THMs) and haloacetic acids (HAA5s) which are reported elsewhere in this report. \*\*Removal ratio is the percent of TOC removed by the treatment process divided by the percent of TOC required by TCEQ to be removed.

	MAXIMUM RESIDUAL DISINFECTANT LEVEL											
Year	Constituent (Unit of Measure)	Highest Average	Range	MRDL	MRDLG	Likely Source of Contaminant						
2021	Chloramines (ppm)	3.24	1.08-4.67	4.0	4.0	Water additive used to control microbes						
					TURBIDIT	Υ						
Year	Location (Unit of Measure)	Highest Single Measurement	Lowest % of Samples Meeting Limits	Entry Point Limit (TT)	Single Measurement Limit (TT)	Likely Source of Contaminant						
2021	Plant 1 (NTU)	0.86	91.7	≤O.3	1.0	Soil runoff						
2021	Plant 2 (NTU)	0.86	91.7	≤0.3	1.0	Soil runoff						

Turbidity has no health effects; however, turbidity can interfere with disinfection and provide a medium for microbial growth. Inadequately treated water may contain disease-causing organisms. These organisms include bacteria, viruses, and parasites that can cause symptoms such as nausea, cramps, diarrhea, and associated headaches. Like more than 1,000 utilities in Texas, Winter Storm Uri had a significant impact on water services. During February 2021, the O.N. Stevens Water Treatment Plant experienced more than 5% of monthly combined filter effluent samples exceeding 0.3 NTU and low disinfection contact time greater than four consecutive hours. This was due to infrastructure damage to chemical feed lines from record-breaking prolonged freezing temperatures. Temporary systems were installed to allow thawing and repair of the primary feed system.

	CRYPIOSPORIDIUM MONITORING											
Year	Constituent	Average Concentration	Unit of Measurement	MCLG	Likely Source of Contaminant							
2019	Cryptosporidium	0.01	Total (Oo) cysts/L	0	Human and animal fecal waste							

Cryptosporidium is of great concern in public water systems that treat surface water for drinking water sources. Resistant to disinfectants, Cryptosporidium can cause gastrointestinal illness in individuals who consume contaminated water. The Long Term 2 Enhanced Surface Water Treatment Rule (LT2ESWTR) is required by Congress in order to increase protection from microbial contaminants such as Cryptosporidium. Under this rule, water systems must conduct monthly source water Cryptosporidium sampling over a two year span. The city of Corpus Christi completed sampling in July of 2019.

MICROBIOLOGICAL CONTAMINANTS

Year	Constituent	Highest Monthly % of Positive Samples	Unit of Measurement	MCL	Likely Source of Contaminant				
2021	Total Coliform Bacteria	3.94	Presence	+	Naturally present in the environment				
Total coli	Total coliform bacteria occur naturally in the environment and are used as an indicator for other, potentially harmful, bacteria that could also be present. <sup>1</sup> Presence of coliform bacteria in 5% or more of the monthly samples.								
Year	Constituent	Total Number of Positive Samples‡	Unit of Measurement	MCL	Likely Source of Contaminant				
2021	Fecal Coliform and E. coli	2	Presence	++	Human and animal fecal waste				

Fecal coliform bacteria, in particular, *E. coli*, are members of the coliform bacteria group originating in the intestinal tract of warm-blooded animals and are passed into the environment through feces. The presence of fecal coliform bacteria (*E. coli*) in drinking water may indicate recent contamination of the drinking water with fecal material. Microbes in these wastes can cause short-term effects, such as diarrhea, cramps, nausea, headaches, and other symptoms. They may pose a special health risk for infants, young children, elderty, and people with severely compromised immune systems.

\*\*A routine sample and a repeat sample are total coliform positive, and one is also fecal coliform or *E. coli* positive. \*\*All subsequent samples were not positive for *E. coli* or total coliforms, therefore, no violation occurred. The positive samples were likely due to a processing error.

LEAD AND COPPER MONITORING RULE							
Year	Constituent (Unit of Measure)	90th Percentil		er of Sites ding AL	AL	Likely Source of Contaminant	
2020	Lead (ppb)	2.4		0	15.0	Corrosion of household plumbing systems; erosion of natural deposits	
2020	Copper (ppm)	0.051		0	1.3	Corrosion of household plumbing systems; erosion of natural deposits	
RADIOACTIVE CONTAMINANTS							
Year	Constituent (Unit of Measure)	Highest Single Measurement	Range	MCL	MCLG	Likely Source of Contaminant	
2020	Gross Beta Particle Activity (pCi/L)	7.0	NA	50.0	0	Decay of natural and man-made deposits	
UNREGULATED CONTAMINANTS							
Year	Constituent (Unit of Measure)	Highest Average	Range	MCL	MCLG	Likely Source of Contaminant	
2021	Bromodichloromethane (ppb)	15.0	5.3-22.1	NA	NA	By-product of drinking water disinfection	
2021	Bromoform (ppb)	16.8	1.9-27.9	NA	NA	By-product of drinking water disinfection	
2021	Chloroform (ppb)	7 <b>.</b> 5	1.3-19.1	NA	NA	By-product of drinking water disinfection	
2021	Dibromochloromethane (ppb)	18.3	6.9-27.3	NA	NA	By-product of drinking water disinfection	

Unregulated contaminants are those for which EPA has not established drinking water standards. The purpose of unregulated contaminant monitoring is to assist EPA in determining the occurrence of unregulated contaminants in drinking water and whether future regulation is warranted.

	UNREGULATED CONTAMINANT MONITORING RULE 4 (UCMR4)							
Year	Constituent (Unit of Measure)	Average	Range	MRL	Likely Source of Contaminant			
2018	Bromochloroacetic Acid (ppb)	13.2	6.0-16.0	NA	By-product of drinking water disinfection			
2018	Bromodichloroacetic Acid (ppb)	2.2	1.4-2.9	NA	By-product of drinking water disinfection			
2018	Chlorodibromoacetic Acid (ppb)	1.2	0.3-1.9	NA	By-product of drinking water disinfection			
2018	Dibromoacetic Acid (ppb)	9.7	1.1-13.5	NA	By-product of drinking water disinfection			
2018	Dichloroacetic Acid (ppb)	12.9	5.5-20.7	NA	By-product of drinking water disinfection			
2018	HAA5 (ppb)	25.7	15.6-28.8	NA	By-product of drinking water disinfection			
2018	HAA6Br (ppb)	27.2	9.0-35.5	NA	By-product of drinking water disinfection			
2018	HAA9 (ppb)	42.4	24.7-49.4	NA	By-product of drinking water disinfection			
2018	Manganese (ppb)	0.7	0.0-1.3	0.4	Naturally occurring element			
2018	Monobromoacetic Acid (ppb)	1.0	0.0-1.4	NA	By-product of drinking water disinfection			
2018	Trichloroacetic Acid (ppb)	2.3	1.1-4.0	NA	By-product of drinking water disinfection			
	SECONDARY AND OTHER CONSTITUENTS – NOT ASSOCIATED WITH ADVERSE HEALTH EFFECTS							

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2018	Monobromoacetic Acid (ppb)	1.0	0.0-1.4	NA	By-product of drinking water disinfection			
2018	Trichloroacetic Acid (ppb)	2.3	1.1-4.0	NA	By-product of drinking water disinfection			
	SECONDARY AND OTHER CONSTITUENTS – NOT ASSOCIATED WITH ADVERSE HEALTH EFFECTS							
Year	Constituent (Unit of Measure)	Highest Average	Range	SMCL	Likely Source of Contaminant			
2021	Aluminum (ppm)	0.166	NA	0.2	Abundant naturally occurring element			
2021	Bicarbonate (ppm)	185	NA	NA	Corrosion of carbonate rocks such as limestone			
2021	Calcium (ppm)	72.7	NA	NA	Abundant naturally occurring element			
2021	Chloride (ppm)	162	NA	300	Abundant naturally occurring element; used in water purification			
2021	Hardness as CaCO₃ (ppm)	245	NA	NA	Naturally occurring calcium and magnesium			
2021	Magnesium (ppm)	15.3	NA	NA	Abundant naturally occurring element			
2021	Manganese (ppb)	1.40	NA	50	Naturally occurring element			
2021	Nickel (ppm)	0.0024	NA	NA	Erosion of natural deposits			
2021	Potassium (ppm)	8.13	NA	NA	Abundant naturally occurring element			
2021	Sodium (ppm)	107	NA	NA	Erosion of natural deposits; oil field by-product			
2021	Sulfate (ppm)	100	NA	300	Naturally occurring; oil field by-product			
2021	Total Alkalinity (ppm)	152	NA	NA	Naturally occurring soluble mineral salts			
2021	Total Dissolved Solids (ppm)	579	NA	1,000	Total dissolved mineral constituents in water			

Many constituents found in drinking water can cause taste, color, and odor problems. These constituents are not causes for health concern. Therefore, secondaries are not required to be reported in this document, but they may affect the appearance and taste of your water.